Reichelt Chemietechnik GmbH + Co.

THOMAPLAST® I

Laboratory Plastics

Containers
Laboratory Instruments
Laboratory Stoppers and Caps
Metering Facilities
Stirring and Mixing
Semi-finished Products

Filtration

Dialysis Membranes
Filter Housings
Filter Disks and Filter Candles
Sintered Elements
Filter Cloths

Reichelt Chemietechnik ’15

Shopping per mouseclick

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Content: Laboratory Plastics

page

Containers

- Bottles, carboys and accessories 3 - 13
  made of FEP, HDPE, LDPE, PC, PFA, PP, PS, PTFE, PVC
  bottles: dropping, wash, scintillation, narrow-neck, wide-mouth
  bottles: storage, cell culture; carboys, jerrycans
  accessories: litre scale, closures, wall drying rack, tank connection
- Tubes, jars and boxes made of HDPE, LDPE, PE, PFA, PP, PS, TPX 13 - 20
  jars: shipment, specimen, packaging, storage, weight
  sample vial, conway diffsion cell, transfer reaction vessel
  with cover, screw closure
- Dishes and crucibles made of PFA, PP, PS, PTFE 20 - 22
  dishes: petri, weighing, evaporating, crystallization, crucibles
  partially with spout
- Measuring beakers and measuring flasks made of ECTFE, PFA, PMP, PP, PTFE, SAN, TPX 22 - 27
  beakers: standard, with handle, scoop, tapered measuring; cylinders, flasks (Erlenmeyer)
  partially with closure
- Funnels and accessories made of FEP, PP, PTFE, TPX, aluminium 27 - 29
  funnels: standard, high-speed, powder, separatory, thistle tube
  accessories: strainer, holder
- Test tubes, centrifuge tubes made of PP, PS, PTFE 29 - 30
  partially with rim, closure, label, stopper
- Test tube racks, desiccators, accessories made of LDPE, PC, PP, PVC 30 - 32
- Cases, trays, bowls, pails and DEWAR-vessels 32 - 36
  made of LDPE, PFA, PP, PVC, XLPE

Laboratory Instruments

- Scoops, spoons, spatulas and tweezers 36 - 38
  made of HDPE, PFA, PP, POM, PTFE, styrene, forged steel, chromium nickel steel
- Pestles and mortars made of melamine 38
- Precision knives and scalpels made of aluminium, stainless steel, steel 39 - 40

Metering Facilities and Metering Devices 40 - 42

- Pipettes, burettes and acessories made of HDPE, NR, PE, PP
  dropping pipette, pipette suction bulb, universal bulb pipette, squeeze bulb pipette filler

Stirring and Mixing

- Stirrers and stirring devices made of PTFE, PP 42 - 44
  stirring: bars, spatulas; magnetic: stirrers, stirring bars, retrievers

Drying Tubes, Gas Sampling Bulbs and Accessories made of LDPE, PFA, PTFE, PP 44 - 45

Laboratory Stoppers and Caps

- Laboratory stoppers made of FPM, NBR, NR, silicone 45 - 50
- Laboratory caps made of silicone, aluminium 50 - 51

Content: Laboratory Plastics

page

Laboratory Semifinished Products and Aids

- Glass fibre wool, boiling stones, balls, powder, blowing bulbs, markers 51 - 53

Protection

- Mats, bench liners, antislip Sheetings and Lead Weight Rings 53 - 54

Laboratory Equipment and Utensils

- cuvette washer, service case, clamping vice, holder, sieve set 54 - 55

Content: Separation Technology – Filtration

page

Dialysing Tubing, Dialysing Chamber, Dialysing Cylinder 56 - 61

Anion-Exchange Membranes and Cation-Exchange Membranes 61 - 63

Hollow Fibres 63 - 64

Borosilicate Glass Filter Disks 64 - 66

Sintered Plates, Sintered Rods and Sintered Pipes 66 - 75

Round Filters and Membranes 75 - 83

Screen Cloths, Filter Cloths, Fleeces and Mats 84 - 93

Frits, Eluent Filters and Immersion Filters 93 - 96

Prefilters and Filter Holders 96 - 103

Filter Modules 103 - 104

Filter Housings and Filter Elements 104 - 111

Fine Filter Systems made of PVDF and PTFE 111 - 112

Containers
Bottles, Carboys and Accessories

THOMAPLAST®-Dropping Bottle made of LDPE - sterilizable

Product specification
- Dropping bottle made of flexible, translucent LDPE with wide mouth.
- Dropping bottle guarantees accurate, reliable, defined, and repeatable metering of aqueous fluids; represents an ideal alternative to conventional pipettes or other metering systems.
- Dropping bottles are fitted with coloured cups for easier identification.
- Drop size: approx. 40 µl.
- Meets the requirements of the USP class VI and the U.S. FDA for food contact.
- Sterilization with ionizing radiation possible.

Item	Volume ml	Outside Ø mm	Height mm	Colour code	Unit piece	Price EURO
12002	4	20	54	white	5	35.00
12008	8	20	65	white	5	40.00
12012	8	20	65	red	5	40.00
12014	15	25	75	white	5	45.00
12015	15	25	75	yellow	5	45.00
12017	15	25	75	green	5	45.00
12018	15	25	75	red	5	45.00
12019	15	25	75	blue	5	45.00

THOMAPLAST®-Dropping Bottle made of LDPE - long tip

Product specification
- Round, transparent bottle made of LDPE with drop dispenser and closure cap, thread according to DIN 168.

Item	Volume ml	Outside Ø mm	External thread	Unit piece	Price EURO
10889	50	37	GL18	12	42.00
10890	100	43	GL18	12	48.00
10891	250	58	GL25	6	39.00
10892	500	74	GL25	6	48.00
10893	1,000	92	GL32	3	33.00

THOMAPLAST®-Dropping and Wash Bottle made of LDPE

Product specification
- Transparent, natural-coloured, well standing wash bottle made of LDPE with integrated spray delivery tube, narrow-mouth and thread according to DIN 168.
- Prominent product advantage: no contamination of the delivery tube during refilling.

Item	Volume ml	Ø neck inside mm	Height mm	Unit piece	Price EURO
10923	250	24	143	5	54.00
10924	500	24	181	5	64.00

THOMAPLAST®-Scintillation Bottle made of HDPE

Product specification
- Stable design made of HDPE with leakproof screw closure.

Item	Volume ml	Outside Ø mm	Ø neck mm	Height mm	Unit piece	Price EURO
61070	20	27	16	60	50	40.00

THOMAPLAST®-Safety Wash Bottle made of LDPE - with label

Product specification

- Bottles from PE-LD or PP, spray tube from PP.
- More safety due to the durable safety imprint in accordance to Directive (EC) No. 1272/2008 (GHS), as well as with all important information:
- Substance name in German, English, French and Spanish
- Chemical formula, CAS No., hazard pictogram, signal word
- Risk phrases (H phrases), safety phrases (P phrases), as well as NFPA Code
- Precise spray jet and optimised medium backflow through the continuous and finely drawn tip of the spray tube. Practically no leakage or dripping with the bright red VENT-CAP screw cap, which prevents almost all static overpressure.

Item	Volume	Imprint	O-Ø	Height	External thread	Unit	Price
	ml		mm	mm		piece	EURO
47799	250	DEST. WASSER	58	135	GL25	3	36.00
47800	250	ACETON	58	135	GL25	3	36.00
47801	250	METHANOL	58	135	GL25	3	36.00
47802	250	ISOPROPANOL	58	135	GL25	3	36.00
47803	250	ETHYLACETAT	58	135	GL25	3	36.00
47804	250	ETHANOL	58	135	GL25	3	36.00
47805	500	DEST. WASSER	74	180	GL25	3	42.00
47806	500	ACETON	74	180	GL25	3	42.00
47807	500	METHANOL	74	180	GL25	3	42.00
47808	500	ISOPROPANOL	74	180	GL25	3	42.00
47809	500	ETHYLACETAT	74	180	GL25	3	42.00
47810	500	ETHANOL	74	180	GL25	3	42.00
47811	1,000	DEST. WASSER	92	221	GL32	3	51.00
47812	1,000	ACETON	92	221	GL32	3	51.00
47813	1,000	METHANOL	92	221	GL32	3	51.00
47814	1,000	ISOPROPANOL	92	221	GL32	3	51.00
47815	1,000	ETHYLACETAT	92	221	GL32	3	51.00
47816	1,000	ETHANOL	92	221	GL32	3	51.00

THOMAPLAST®-Wash Bottle made of LDPE - coloured

Product specification

- Non-rigid, cylindrical, well standing wash bottle made of plasticized LDPE in four bright colours and with tight closure system, as closure cap and outlet pipe are made of one piece. Colours are food-suited and cadmium-free.

Item	Volume	Outside Ø	Height	External thread	Colour	Unit	Price
	ml	mm	mm			piece	EURO
10925	250	58	135	GL25	red	5	46.00
10926	250	58	135	GL25	blue	5	46.00
10927	250	58	135	GL25	yellow	5	46.00
10928	250	58	135	GL25	green	5	46.00
10929	500	74	180	GL25	red	5	54.00
10930	500	74	180	GL25	blue	5	54.00
10931	500	74	180	GL25	yellow	5	54.00
10932	500	74	180	GL25	green	5	54.00

THOMAPLAST®-Wash Bottle made of PFA

Product specification

- Narrow-neck bottles made of highly transparent perfluoroalkoxy (PFA), well suited for all organic and inorganic solutions, even at low and high temperatures, screw cap made of ETFE, dispensing tube made of FEP

Item	Volume	Height	Outside Ø	External thread	Unit	Price
	ml	mm	mm		piece	EURO
286681	250	155	60	GL25	1	144.00
286691	500	185	75	GL25	1	185.00
286701	1,000	230	95	GL32	1	225.00

THOMAPLAST®-Narrow-Neck Bottle made of LDPE

Product specification

- LDPE, translucent, natural-coloured, with tight screw cap

Item	Volume ml	Outside Ø mm	Ø neck mm	Height mm	Unit piece	Price EURO
62051	10	26	9	48	10	21.00
62052	20	32	9	58	10	25.00
62053	30	34	9	64	10	27.00
62054	50	37	13	86	10	30.00
62055	100	47	13	106	10	33.00
62056	200	58	13	134	5	23.00
62057	250	61	19	141	5	27.00
62058	500	75	19	178	5	33.00
62059	1,000	98	22	225	5	43.00
62060	2,000	120	22	265	3	48.00
62061	3,000	138	24	300	2	45.00
62062	5,000	162	31	355	1	36.00

THOMAPLAST®-Narrow-Neck Bottle made of PP

Product specification

- Translucent, transparent, sterilizable (up to +130 °C) bottle made of polypropylene with narrow neck, absolutely tight screw closure and a great degree of chemical resistance.

Item	Volume ml	Outside Ø mm	Ø neck mm	Height mm	Unit piece	Price EURO
10826	50	40	13	90	10	49.00
40129	100	47	13	106	10	54.00
40130	250	61	19	141	5	44.00
40131	500	75	19	178	3	42.00
40132	1,000	98	21	225	3	51.00
10827	2,000	120	23	270	2	51.00

THOMAPLAST®-Narrow-Neck Bottle made of PFA

Product specification

- A bottle made of highly transparent perfluoroalkoxy (PFA) for contamination-free working with pure and aggressive media even at temperatures of -200 to +200 °C, with absolutely leakproof screw closure made of ETFE.

Item	Volume ml	Height mm	Outside Ø mm	Unit piece	Price EURO
28669	100	120	45	1	128.00
28670	250	155	60	1	144.00
28671	500	185	75	1	172.00
28672	1,000	230	95	1	223.00

THOMAPLAST®-Narrow-Neck High Shoulder Bottle made of PP

Product specification

- Translucent, sterilizable (up to +130 °C) bottle made of polypropylene with narrow neck, absolutely tight screw closure and a great degree of chemical resistance, robust polypropylene design.

Item	Volume ml	Outside Ø mm	Ø neck mm	Height mm	Unit piece	Price EURO
10797	4	16	8	42	10	40.00
10798	8	25	13	45	10	40.00
10799	15	24	9	73	10	60.00
10800	15	25	13	58	10	43.00
10801	30	34	14	60	10	46.00
10802	60	39	14	85	10	49.00
10803	125	50	18	100	10	51.00
10804	250	61	18	130	5	41.00
10805	500	73	22	170	5	67.00
10806	1,000	90	27	215	3	57.00
10807	2,000	120	40	235	1	34.00

THOMAPLAST®-Narrow-Neck High Shoulder Bottle made of FEP

Product specification

- Transparent narrow-mouth bottle made of FEP supplied with hermetically sealing screw cap made of ETFE. Temperature resistance from -105 to +150 °C, very good chemical resistance.

Item	Volume ml	Ø neck mm	Height mm	Unit piece	Price EURO
60958	30	15	75	1	54.00
60959	60	15	80	1	62.00
60960	125	18	115	1	75.00
60961	250	18	135	1	113.00
60962	500	20	170	1	128.00
60963	1,000	20	195	1	167.00
60964	2,000	35	240	1	294.00

THOMAPLAST®-Narrow-Neck High Shoulder Bottle made of LDPE - square

Product specification

- Square, transparent bottle made of LDPE with closure cap, thread according to DIN 168.

Item	Volume ml	External thread	Dimensions mm	Height mm	Unit piece	Price EURO
10884	100	GL25	43 x 43	76	12	60.00
10886	250	GL28	80 x 80	80	12	72.00
10887	500	GL28	90 x 90	106	6	45.00
10888	1,000	GL32	80 x 80	187	3	30.00

THOMAPLAST®-Narrow-Neck Conical Shoulder Bottle made of PP - with screw closure

Product specification

- Transparent conical shoulder bottle with narrow neck and leakproof screw closure, specified according to DIN 12036 and 12039 resp., made of polypropylene.

Item	Volume ml	Outside Ø mm	Height mm	External thread	Unit piece	Price EURO
10817	100	52	100	GL18	10	40.00
10818	250	70	132	GL25	10	53.00
10819	500	87	165	GL25	5	47.00
10820	1,000	108	202	GL32	5	67.00
10821	2,000	131	245	GL32	2	82.00
10822	5,000	178	315	GL45	1	36.00
10823	10,000	222	394	GL63	1	49.00

THOMAPLAST®-Narrow-Neck Storage Bottle made of PC - square

Product specification

- Glass-clear, graduated storage bottles made of breakproof polycarbonate with tightly closing screw cap made of PP. The square-prismatic shape allows room-saving placing.
- Free of leachable components and biocompatible.
- Temperature loadable between -135 °C and +135 °C, sterilizable and particularly suited for freezer storage.
- Not suitable for solvents, strong acids, and alkaline solutions.

Item	Volume ml	Dimensions mm	Ø neck mm	Height mm	Unit piece	Price EURO
48014	30	38 x 38	14	62	3	30.00
48015	60	40 x 40	18	82	3	36.00
48016	125	52 x 52	28	105	3	36.00
48017	250	60 x 60	28	145	3	54.00
48018	500	75 x 75	28	175	3	69.00
48019	1,000	90 x 90	28	220	2	71.00

THOMAPLAST®-Narrow-Neck Storage Bottle made of PP - square

Product specification

- Transparent, graduated storage bottles of high chemical resistance, made of shatterproof polypropylene (PP), with tightly closing screw cap made of the same material. The square-prismatic shape allows room-saving placement.
- Free of leachable components and biocompatible.
- Temperature-loadable from -140 to +130 °C.
- Sterilizable and particularly suitable for deep-freezing.

Item	Volume ml	Dimensions mm	Ø neck mm	Height mm	Unit piece	Price EURO
48020	30	38 x 38	14	62	10	41.00
48021	60	40 x 40	18	82	10	51.00
48022	125	52 x 52	28	105	10	72.00
48023	250	60 x 60	28	145	5	57.00
48024	500	75 x 75	28	175	5	64.00
48025	1,000	90 x 90	28	220	5	80.00

THOMAPLAST®-Wide-Mouth Bottle made of LDPE

Product specification

- LDPE, translucent, natural-coloured; with leakproof screw closure

Item	Volume ml	Outside Ø mm	Ø neck mm	Height mm	Unit piece	Price EURO
62040	50	39	24	75	10	30.00
62041	100	48	24	95	10	36.00
62042	200	59	31	116	10	45.00
62043	250	64	31	122	6	33.00
62044	300	67	31	130	6	39.00
62045	500	77	39	156	5	36.00
62046	750	88	39	175	5	44.00
62047	1,000	95	50	207	3	48.00
62048	1,500	108	50	228	3	51.00
62049	2,000	120	50	250	3	51.00

THOMAPLAST®-Wide-Mouth Bottle made of HDPE

Product specification

- HDPE, screw cap made of PP with sealing disk made of PE.

Item	Volume ml	Outside Ø mm	Ø neck mm	Height mm	Unit piece	Price EURO
62071	100	48	31	79	10	29.00
62072	250	66	41	102	6	30.00
62073	500	81	54	124	6	36.00
62074	1,000	101	69	155	5	34.00
62075	1,500	115	69	175	3	39.00
62076	2,000	126	69	195	2	32.00

THOMAPLAST®-Wide-Mouth Bottle made of HDPE - square, leakproof

Product specification

- Rectangular, natural-coloured, translucent, dimensional stable, impact-resistant wide-mouth bottle made of HDPE with leakproof screw closure.

Item	Volume ml	Dimensions mm	Ø neck mm	Height mm	External thread	Unit piece	Price EURO
10845	250	59 x 59	30	110	GL50	5	39.00
10846	500	68 x 68	30	146	GL65	5	49.00
10847	1,000	90 x 90	50	170	GL65	3	45.00

THOMAPLAST®-Wide-Mouth Bottle made of PP

Product specification

- Robust, transparent, sterilizable (up to +130 °C) bottle made of polypropylene, with leakproof screw closure.

Item	Volume ml	Outside Ø mm	Ø neck mm	Height mm	Unit piece	Price EURO
60966	60	40	21	85	10	52.00
60967	150	50	26	105	10	58.00
60968	250	60	35	145	10	79.00

Item	Volume ml	Outside Ø mm	Ø neck mm	Height mm	Unit piece	Price EURO
60969	500	75	45	165	5	59.00
60970	1,000	90	54	210	2	43.00
60971	2,000	120	54	245	2	59.00

THOMAPLAST®-Wide-Mouth Bottle made of FEP

Product specification

- Transparent, chemical-resistant, temperature-resistant (up to +150 °C), sterilizable, shatterproof wide-mouth bottles made of tetra-fluoroethylene hexafluoropropylene copolymers (FEP), with absolutely leakproof screw cap.
- The material is insensitive to lowest temperatures.
- Preparations, e.g. vaccines, can be frozen up to temperatures of -105 °C.

Item	Volume ml	Outside Ø mm	Ø neck mm	Height mm	Unit piece	Price EURO
10933	125	45	28	115	1	82.00
10934	250	58	32	125	1	126.00
10935	500	70	38	155	1	159.00
10936	1,000	90	42	200	1	225.00

THOMAPLAST®-Wide-Mouth Bottle made of PFA

Product specification

- Transparent wide-mouth bottle finished with absolutely smooth surface, made of perfluroalkoxy of high temperature and chemical resistance. The packing lip integrated into the screw cap guarantees absolute tightness.

Item	Volume ml	Outside Ø mm	Ø neck mm	Height mm	Unit piece	Price EURO
11979	50	37	17	85	1	73.00
11980	100	45	24	120	1	92.00
11981	250	60	33	150	1	121.00
11982	500	75	37	180	1	151.00
11983	1,000	95	49	215	1	205.00
11977	2,000	130	60	245	1	300.00

THOMAPLAST®-Wide-Mouth Bottle made of PVC - square

Product specification

- Square with screw closure. Transparent or brown-transparent (amber translucent), physiologically safe.

Item	Volume ml	Design	LxW mm	Ø neck mm	Height mm	Unit piece	Price EURO
60973	50	transparent	38 x 38	23	60	10	21.00
60980	50	amber	38 x 38	23	60	10	24.00
60974	100	transparent	46 x 46	31	72	10	25.00
60981	100	amber	46 x 46	31	72	10	27.00
60975	200	transparent	59 x 59	41	87	10	34.00
60982	200	amber	59 x 59	41	87	10	35.00
60976	300	transparent	66 x 66	41	95	6	30.00
60983	300	amber	66 x 66	41	95	6	33.00
60977	500	transparent	80 x 80	54	108	5	29.00
60984	500	amber	80 x 80	54	108	5	31.00
60978	1,000	transparent	95 x 95	69	144	5	36.00
60985	1,000	amber	95 x 95	69	144	5	39.00

THOMAPLAST®-Wide-Mouth Bottle made of HDPE - square

Product specification

- Square, white, opaque, very robust (stable) wide-mouth jar made of polyethylene (HDPE) with extra large mouth, separate internal seal as well as leakproof screw closure.

Item	Volume ml	Dimensions mm	Ø neck mm	Height mm	Unit piece	Price EURO
10835	750	95 x 95	77	130	5	44.00
10836	1,000	95 x 95	77	155	5	69.00
10837	1,500	95 x 95	77	215	5	77.00

THOMAPLAST®-Wide-Mouth Bottle made of PP - square

Product specification

- Very sturdy, dimensionally stable wide-mouth jar made of polypropylene with two recesses for safe handgrip, wide filling opening and screw closure.
- However, the square, natural-coloured, translucent jar is not absolutely liquid-tight.
- Particularly suited for storage of dry chemicals.
- Sterilizable up to +130 °C.

Item	Volume l	Dimensions mm	Ø neck mm	Height mm	Unit piece	Price EURO
10785	4.2	140 x 140	90	280	1	53.00

THOMAPLAST®-Wide-Mouth Safety Bottle made of LDPE - with internal seal

Product specification

- Round, transparent bottle made of LDPE with closure cap and lead sealing device.

Item	Volume ml	Outside Ø mm	Ø neck mm	Height mm	Unit piece	Price EURO
10874	50	40	24	75	10	46.00
10875	100	50	24	90	10	52.00
10876	250	60	36	130	10	75.00
10877	500	75	36	160	5	46.00
10878	1,000	95	50	200	2	32.00
10879	2,000	115	50	250	2	60.00

THOMAPLAST®-Wide-Mouth Safety Bottle made of HDPE - octagonal

Product specification

- Octagonal, natural-coloured, translucent big-bellied bottle made of HDPE with screw closure and lead sealing device.

Item	Volume l	Outside Ø mm	Ø neck mm	Height mm	Unit piece	Price EURO
10848	5	192	110	250	1	50.00
10849	10	232	110	325	1	66.00

THOMAPLAST®-Wide-Mouth High-Shoulder Bottle made of PP

Product specification

- Standard laboratory bottles made of polypropylene.
- Translucent (transparent) and with leakproof screw closure.
- Sterilizable.

Item	Volume ml	Outside Ø mm	Ø neck mm	Height mm	Unit piece	Price EURO
40133	100	48	24	100	10	37.00
40134	250	64	31	125	5	28.00
40135	500	77	39	159	3	27.00
40136	1,000	95	50	210	3	42.00

THOMAPLAST®-Wide-Mouth Conical Shoulder Bottle made of PP - with srew closure

Product specification

- Transparent conical shoulder bottle with wide mouth and leakproof screw closure, specified according to DIN 12036 and 12039 resp., made of polypropylene.

Item	Volume ml	Outside Ø mm	Height mm	External thread	Unit piece	Price EURO
10812	100	55	96	GL32	10	49.00
10813	250	73	132	GL45	10	62.00
10814	500	87	172	GL45	5	44.00
10815	1,000	108	204	GL63	3	48.00
10816	2,000	131	243	GL63	2	39.00

THOMAPLAST®-Storage Bottle made of HDPE

Product specification

- Filling carboy made of polyethylene (HDPE) with bail handles, transparent.
- With or without connecting thread (pipe thread R 3/4").
- No vacuum generation while draining, due to air vent screw closure.
- Air vent valve (accessory) allows attachment of a sterile filter or of calcium chloride filter.
- With self-adhesive blue litre scale, the litre scale proved to be a useful auxiliary for preparing chemical compositions.
- Optional accessories: closure cap item 40074 and spigot items 40047-48, 40073, 10746-10747 close absolutely tightly. Stripping of the thread is not possible, the cock is always in a straight position.

Item	Volume l	Outside Ø mm	Height mm	Threaded sleeve	Unit piece	Price EURO
40065	5	170	350	without	1	56.00
40066	5	170	350	with	1	68.00
40067	10	210	445	without	1	61.00
40068	10	210	445	with	1	87.00
40069	25	275	580	without	1	111.00
40070	25	275	580	with	1	123.00
40072	60	345	826	with	1	221.00

RCT®-Accessories: Screw Closure for Storage Bottles - with drain function

Product specification

- The closure prevents vacuum generation while draining and has a R 3/4"-thread.

Item	Unit piece	Price EURO
40075	1	23.00

THOMAPLAST®-Narrow-Neck Storage Bottle made of LDPE - without cock

Product specification

- Natural-coloured cylindrical round carboy in particularly sturdy industrial design made of LDPE with strong plastic handles on top of the shoulder.

Item	Volume l	Outside Ø mm	Ø neck mm	Height mm	Bail handle	Unit piece	Price EURO
11575	5	165	45	335	1	1	49.00
11576	10	210	55	415	1	1	59.00

THOMAPLAST®-Narrow-Neck Storage Bottle made of LDPE - with cock

Product specification

- Natural-coloured, translucent storage bottles with narrow neck, screw closure, bail handles, and spigot made of HDPE.
- Spout-Ø: 11 mm, connecting thread: 3/4".
- Spare spigot: item 10872

Item	Volume l	Outside Ø mm	Ø neck mm	Height mm	Bail handle	Unit piece	Price EURO
10871	5	165	47	335	1	1	79.00
62083	10	210	55	420	1	1	117.00
62085	25	275	55	540	2	1	171.00
62087	50	365	55	660	2	1	273.00

THOMAPLAST®-Carboy (rectangular) made of LDPE - without cock

Product specification

- Natural-coloured rectangular carboy in particularly sturdy industrial design made of LDPE with strong plastic handles on top of the shoulder.

Item	Volume l	Dimensions LxWxH mm	Ø neck mm	Bail handle	Unit piece	Price EURO
62078	5	180 x 140 x 290	63	1	1	54.00
62079	10	220 x 170 x 390	63	1	1	90.00
62080	20	280 x 240 x 415	63	2	1	151.00
11580	30	305 x 305 x 525	65	2	1	223.00

THOMAPLAST®-Carboy (rectangular) made of LDPE - with screwed ball cock

Product specification

- Natural-coloured rectangular carboy made of LDPE in particularly sturdy industrial design with strong plastic handles on top of the shoulder.
- Screwed Ball cock made of PP (ball seal made of PTFE), drain cock 12 mm and thread R 1/2".

Item	Volume l	Dimensions LxWxH mm	Ø neck mm	Bail handle	Unit piece	Price EURO
11566	5	180 x 140 x 290	63	2	1	177.00
11567	10	220 x 175 x 390	63	1	1	215.00
11568	20	280 x 240 x 415	63	2	1	271.00
11569	30	310 x 300 x 560	65	2	1	320.00

THOMAPLAST®-Carboy (round) made of PP - with drain ball cock

Product specification

- Natural-coloured round carboy made of polypropylene in particularly sturdy industrial design with strong plastic handles.
- Drain ball cock made of PP (ball seal made of PTFE, Seal made of NBR), outside diameter: 12 mm, cock thread: R 1/2".
- Bottles of 5 or 10 liters with rust-proof metal frame, all the rest with 2 plastic handles

Item	Volume l	Outside Ø mm	Ø neck mm	Height mm	Bail handle	Unit piece	Price EURO
11570	5	165	50	340	1	1	180.00
11571	10	205	50	430	1	1	184.00
11572	25	280	65	540	2	1	225.00
11573	60	346	50	823	2	1	360.00

THOMAPLAST®-Jerrycan made of HDPE - square

Product specification

- Rectangular with screw closure and lateral molded-in safety handgrip

Item	Volume l	Dimensions mm	Ø neck mm	Height mm	Unit piece	Price EURO
41020	2.3	135 x 135	69	192	3	69.00
41021	4.4	142 x 142	109	263	3	87.00

THOMAPLAST®-Jerrycan made of HDPE

Product specification

- Wide-mouth jerrycan made of transparent HDPE with sturdy handle and extremely wide filling opening (88 mm).
- The 5 l and 10 l containers have an additional air vent opening with small spout.
- Connecting thread: Pipe thread 3/4" outside depending on type for adapting the THOMAFLUID®-spigot (accessory).
- Screw plug and spigot close absolutely tightly. Stripping of the thread is not possible, the cock is always in a straight position.
- The litre scale proved to be a useful auxiliary for preparing chemical compositions.
- Optional accessories: litre scale items 40059-64, closure cap item 40074 and spigot items 40047-48, 40073, 10746-10747

Item	Volume l	Dimensions LxWxH mm	Threaded sleeve	Unit piece	Price EURO
40051	5	290 x 130 x 290	without	1	55.00
40052	5	290 x 130 x 290	with	1	66.00
40053	10	310 x 150 x 400	without	1	68.00
40054	10	310 x 150 x 400	with	1	94.00
40055	20	380 x 175 x 490	without	1	104.00
40056	20	380 x 175 x 490	with	1	135.00
40057	30	370 x 250 x 490	without	1	143.00
40058	30	370 x 250 x 490	with	1	166.00

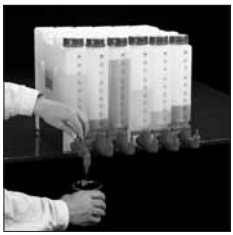
RCT®-Accessories: Litre Scale for Jerrycans

Item	Volume l	Graduation ml	Unit piece	Price EURO
40059	5	250	1	12.00
40060	5	250	3	30.00
40061	10	250	1	12.00
40062	10	250	3	30.00
40063	22	250	1	12.00
40064	22	250	3	30.00

THOMAPLAST®-Jerrycan made of PP - stackable

Product specification

- Stackable jerrycans made of transparent polypropylene (PP) are thick-walled and place-saving at the same time. They can be placed both horizontally and vertically.
- Connecting thread: pipe thread 3/4" depending on type for adapting the THOMAFLUID®-spigot (accessory).
- The optional spigot closes absolutely tightly. Stripping of the thread is not possible.
- With raised, indestructible litre scale.
- Optional accessories: closure cap item 40074 and spigot items 40047-48, 40073, 10746-10747



Item	Volume l	Threaded sleeve	Dimensions LxWxH mm	Unit piece	Price EURO
40045	5	without	320 x 65 x 320	1	57.00
40046	5	with	320 x 65 x 320	1	66.00

RCT®-Accessories: Closure Cap made of PVC

Product specification

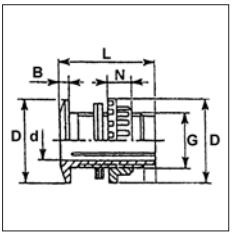
- Closure Cap for jerrycans and carboys with external thread R 3/4", colour: grey

Item	Internal thread	Unit piece	Price EURO
40074	R 3/4"	1	9.00

RCT®-Accessories: Tank Connection made of PP

Product specification

- Connection with cylindrical external thread „G", complete with EPDM-gaskets for simple screw mounting in tank walls



Item	External thread	d mm	D mm	L mm	B mm	Unit piece	Price EURO
14352	G 1/2"	38	13.5	49	5.5	3	60.00
14353	G 3/4"	43	18	52	5.5	3	69.00
14354	G 1"	50	24.4	56	5.5	3	78.00

THOMAPLAST®-Wall Drying Rack made of PS

Product specification

- Robust construction, light gray. Seamlessly injection-molded in one piece, with rounded edges and drain channel, thus easy to clean. Rack with 72 pegs, length 100 mm, Ø 15 mm. Pegs snap in or out easily when drying of larger flasks or cylinders. Rack with 2 hanging hooks at the top and additional fixation at the bottom, incl. dowels, mounting kit, and assembly instructions.

Item	Dimensions mm	Design	Price EURO
61300	450 x 630	72 pegs	239.00
61301	95 x 6	replacement peg	19.00

THOMAPLAST®-Cell Culture Flask made of PS

Product specification

- The cell culture flasks are made of optically clear, biologically inert, homogenous polystyrene (PS), while the closure caps are made of orange-coloured polyethylene (PE). They guarantee absolute tightness and thus increased cell growth.
- Temperature resistance up to max. +80 °C.
- The cell culture flask ensures optimal proliferation for anchorage dependent cells, due to homogenous surface treatment.
- Each cell culture flask is tested separately under pressure.
- Each bottle lot is checked for sterility, non-toxicity, cell attachment, and cell proliferation.
- The cell culture flasks are graduated, fitted with labeling surface and feet for better stability.
- Sterile packaged.

Item	Culture area cm²	Volume ml	Unit piece	Price EURO
40437	25	70	20	72.00
40438[1]	75	268	5	44.00
40439	75	275	5	44.00
40440	150	600	5	44.00

[1] cell culture flask with straight neck

Tubes, Jars and Boxes

THOMAPLAST®-Shipment Jar made of PS - with cover

Product specification

- Transparent tubes made of polystyrene (PS) with easily and tightly closing cover made of polypropylene (PP).

Item	Volume ml	Outside Ø mm	Height mm	Unit piece	Price EURO
11892	1	13	15	50	35.00
61158	3.5	15	30	50	35.00
61160	6	18	36	50	35.00
61161	10	18	52	50	40.00
61162	16	23	60	50	40.00

THOMAPLAST®-Shipment Jar made of LDPE - with cover

Product specification

- Translucent jar made of LDPE with well-closing cover.

Item	Volume ml	Outside Ø mm	Height mm	Unit piece	Price EURO
11906	5	20	25	20	58.00
11907	12	24	35	20	80.00
11908	18	24	52	15	90.00
11909	28	24	85	10	75.00
11910	50	33	70	10	90.00
11911	70	33	105	5	60.00

THOMAPLAST®-Shipment Jar made of LDPE - natural

Product specification
- Translucent, with well-closing cover and fastening strap, made of LDPE.

Item	Outside Ø mm	Height mm	Colour	Unit piece	Price EURO
60747	8	32	nature	50	45.00
60749	15	50	nature	30	48.00
11838	16	30	nature	20	50.00
11840	18	44	nature	30	48.00
11841[1]	20	130	white	20	46.00
60750	22	32	nature	30	48.00
60751	25	72	nature	20	52.00
11844	30	52	nature	20	62.00
11845	30	75	nature	20	68.00

[1] made of PP

THOMAPLAST®-Shipment Jar made of PE/PP - with screw closure

Product specification
- Very stable, liquid-tight design with screw closure made of the materials polyethylene and polypropylene.

Item	Volume ml	Outside Ø mm	Height mm	Material	Unit piece	Price EURO
11898	40	25	120	PE (LDPE)	50	170.00
11899	45	30	98	PP	50	150.00

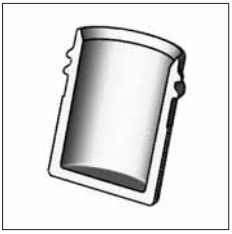
THOMAPLAST®-Sample Vials made of PFA

General product specification
- Sample vial made of PFA with tight screw closure incorporating the central hole (6.4 mm and 1/4“ resp.) with thread for the extremely thick silicone-tylon-septum. A special rack made of black PE for accommodation of ten sample vials as well as two code or I.D. cards are included in the content of supply. Slots for the cards on the vials.

THOMAPLAST®-Sample Vial made of PFA - with screw cap and flat bottom

Product specification
- The delivery consists of either two sample vials or ten sample vials including rack.

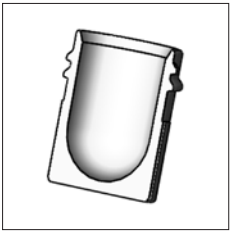
Technical specification
- **Temperature range:** -196 to +250 °C
- **Wall thickness of sample vial:** 2 mm
- **Height of cap, sample vial:** 15 mm
- **Dimensions of rack:** 8.1 x 26.5 cm (W x L) for 10 sample vials



Item	Volume ml	Dimensions of sample vial ØxH mm	Colour	Unit piece	Price EURO
72383	7	21 x 33	nature	2	62.00
72382	7	21 x 33	nature	10	167.00
72388	15	29 x 37	nature	2	82.00
72384	15	29 x 37	nature	10	243.00
72389	22	29 x 53	nature	2	92.00
72385	22	29 x 53	nature	10	318.00
72390	30	36 x 70	nature	2	97.00
72386	30	36 x 70	nature	10	318.00
72496	60	29 x 133	nature	2	160.00
72498	60	29 x 133	nature	10	580.00

THOMAPLAST®-Sample Vial made of PFA - with screw cap and round bottom

Product specification
- Sample vials made of PFA with a screw cap optimally closing due to intermediate seal.
- Suitable as freezing vials; vials are stackable.
- Rack made of black PE.
- The delivery consists of either two sample vials or ten sample vials including rack, code or I.D. cards are always included in the content of supply.



Technical specification

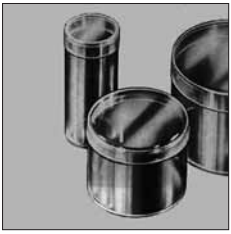
- **Temperature range:** -196 to +250 °C
- **Wall thickness of sample vial:** 2 mm
- **Height of cap, sample vial:** 14 mm
- **Dimensions of rack:** 6.9 x 17.4 cm (W x L) for 10 sample vials

Item	Volume ml	Dimensions of sample vial ØxH mm	Colour	Unit piece	Price EURO
72394	7	21 x 33	nature	2	67.00
72495	7	21 x 33	nature	10	185.00
72395	15	29 x 37	nature	2	95.00
72393	15	29 x 37	nature	10	254.00

THOMAPLAST®-Specimen Jar made of PS - with cover

Product specification

- Glass-clear jars made of polystyrene (PS) with well-closing cover.



Item	Outside Ø mm	Height mm	Unit piece	Price EURO
11849	10	5	20	22.00
11850	18	7	20	38.00
11851	20	10	20	30.00
11852	22	13	20	26.00
11853	25	25	10	44.00
62000	26	17.5	20	20.00
11855	27	10	20	22.00
11856	30	35	10	29.00
11857	33	10	20	30.00
62001	33	18	20	40.00
11858	34	16	10	45.00
11859	34	25	5	29.00
62002	34	43	20	28.00
62003	36	29	20	40.00
11860	39	15	20	40.00
11861	39	30	10	34.00
11862	46	16	20	34.00
11863	46	42	20	34.00
62004	49	36	20	36.00
62005	50	25	20	36.00
11864	50	40	10	39.00
11865	54	14	20	38.00
11866	58	20	10	29.00
62006	65	7	20	38.00
11867	68	16	10	32.00
11868	68	30	10	45.00
62007	69	22	20	38.00
62008	69	40	20	58.00
62009	69	51	20	58.00
62010	70	30	20	48.00
11869	77	26	5	34.00
11870	77	31	5	35.00
11871	80	20	10	47.00
11872	80	40	5	34.00
62011	85	8	20	42.00
62012	89	35	20	64.00
11873	90	25	5	35.00
11874	90	40	5	45.00
62013	98	43	20	69.00
11875	101	54	5	45.00
11876	120	66	3	45.00
11877	125	34	3	45.00
11878	155	34	2	37.00
11879	224	33	1	33.00

THOMAPLAST®-Specimen Jar made of PS - with screw closure

Product specification

- Transparent, stable design with screw closure but not liquid-tight, ideal for use as show glass.

Item	Volume ml	Outside Ø mm	Height mm	Unit piece	Price EURO
11939	60	48	52	25	80.00
11940	95	48	74	25	85.00
11941	120	48	90	20	74.00
11942	150	48	105	20	82.00

THOMAPLAST®-Specimen Jar made of PP - with cover

Product specification

- Well closing cover
- Chemical-resistant and sterilizable up to +130 °C

Item	Volume ml	Outside Ø mm	Height mm	Unit piece	Price EURO
61197	15	30	30	20	40.00
61198	25	32	38	20	48.00
61199	50	40	45	20	58.00
61200	100	50	60	10	37.00

THOMAPLAST®-Specimen Jar made of LDPE - with screw closure

Product specification

- Very sturdy design made of LDPE, with leakproof, easy-turnable screw closure, colour: translucent.

Item	Volume ml	Outside Ø mm	Height mm	Unit piece	Price EURO
11900	5	21	30	3	36.00
11901	10	21	55	3	39.00
11902	30	35	53	3	45.00
11903	60	35	90	3	54.00
11904	90	55	60	2	44.00
11905	180	55	108	1	27.00

THOMAPLAST®-Specimen Jar made of PFA - with screw cap

Product specification

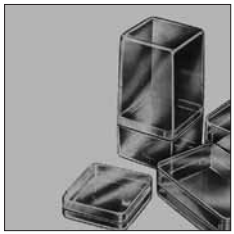
- Specimen jars made of PFA with a screw cap optimally closing due to intermediate seal.
- The jars are manufactured seamlessly, translucent (transparent) and black resp., stackable, and freezable.
- The jar lid can be labeled with felt-tip pen.

Technical specification

- **Temperature range:** -196 to +250 °C
- **Wall thickness**, **specimen jar:** 2.5 mm

Item	Volume ml	Outside Ø mm	Height mm	Colour	Unit piece	Price EURO
60209	7	22	37	nature	1	39.00
60210	30	29	69	nature	1	44.00
11985	30	38	54	nature	1	48.00
11986	60	38	90	nature	1	58.00
72497	60	43	49	nature	1	59.00
60211	60	50	47	nature	1	88.00
11987	90	54	62	nature	1	64.00
72396	90	63	49	nature	1	69.00
72397	120	50	66	nature	1	98.00
72398	120	50	66	black	1	98.00
60212	120	66	53	nature	1	113.00
11988	180	54	112	nature	1	79.00
72399	180	73	66	nature	1	103.00
60213	240	66	95	nature	1	164.00
72400	240	90	66	nature	1	125.00
72401	240	90	66	black	1	125.00
72402	300	72	66	nature	1	141.00
72554	350	100	50	nature	1	185.00
72403	360	83	85	nature	1	154.00
72404	480	108	85	nature	1	215.00
60214	500	85	120	nature	1	280.00
72405	500	114	84	nature	1	246.00
72406	500	114	84	black	1	246.00
60216	1,000	107	151	nature	1	408.00
72407	1,000	147	105	nature	1	368.00
72408	1,000	147	105	black	1	368.00

THOMAPLAST®-Specimen Box made of PS - with cover



Item	Volume ml	Dimensions LxWxH mm	Unit piece	Price EURO
62015	23	47 x 45 x 11	20	24.00
62016	14	50 x 30 x 9	20	24.00
62017	24	50 x 30 x 16	20	24.00
62018	35	57 x 36 x 17	20	24.00
62019	51	57 x 36 x 25	20	28.00
62020	75	57 x 47 x 28	20	38.00
62021	110	60 x 51 x 26	20	46.00
62022	52	73 x 42 x 17	20	34.00
62023	150	75 x 75 x 27	20	44.00
62024	108	80 x 50 x 27	20	44.00
62025	230	95 x 68 x 35	20	58.00
62026	158	99 x 59 x 27	20	58.00

Item	Volume ml	Dimensions LxWxH mm	Unit piece	Price EURO
62027	400	102 x 85 x 47	20	76.00
62028	125	107 x 53 x 22	20	48.00
62029	160	107 x 75 x 20	20	52.00
62030	255	115 x 75 x 30	20	74.00
62031	3,150	190 x 145 x 115	2	43.00
62032	2,300	198 x 154 x 75	2	26.00

THOMAPLAST®-Packaging Jar made of PP - with cover

Product specification

- White, well-closing, shatterproof jar made of polypropylene (PP).
- Cover can be labeled.

Item	Volume ml	Outside Ø mm	Height mm	Unit piece	Price EURO
61227	10	40	20	25	37.00
61228	20	40	30	25	65.00
61229	30	55	25	25	65.00
61230	50	55	40	25	70.00
61231	75	55	50	25	75.00
61232	100	70	40	25	115.00
61233	150	70	60	25	125.00
61235	250	95	60	25	140.00

THOMAPLAST®-Packaging Jar made of PP - with screw closure

Product specification

- White, extremely stable but light jar made of polypropylene with easy-turnable screw closure (not liquid-tight).
- Physiologically safe: for use with powder, granulate, pastes etc.
- Outstandingly chemical-resistant and sterilizable up to +121 °C.

Item	Volume ml	Outside Ø mm	Height mm	Unit piece	Price EURO
11930	12	29	30	25	35.00
11931	25	34	40	25	50.00
11932	35	38	48	25	60.00
11933	60	45	55	25	65.00
11934	75	45	65	25	70.00
11935	125	56	67	25	95.00
61190	150	65	50	8	44.00
61191	250	65	82	6	39.00
11936	250	73	78	20	92.00
61192	500	90	80	5	41.00
11937	500	95	91	10	82.00
61194	800	90	125	3	30.00
61195	1,000	100	130	3	36.00
11938	1,000	113	128	5	62.00

THOMAPLAST®-Packaging Jar made of TPX - with screw closure

Product specification

- Glass-clear, shatterproof jar in sturdy design, made of TPX (polymethylpentene)
- Lid made of polypropylene (PP)
- The jar is chemical-resistant to a great degree and sterilizable up to +130 °C

Item	Volume ml	Outside Ø mm	Unit piece	Price EURO
11634	60	55	5	39.00
11635	125	70	3	39.00
11636	250	70	3	48.00
11637	500	120	1	24.00
11638	1,000	120	1	29.00

THOMAPLAST®-Packaging Jar made of HDPE

Product specification
- White, very stable, cylindrical jar made of polyethylene.
- The cover must be ordered separately in different colors.

Item	Volume ml	Outside Ø mm	Height mm	Unit piece	Price EURO	Price EURO
11916	250	95	60	10	50.00	50.00
11917	500	95	95	10	56.00	56.00
11918	750	95	135	10	60.00	60.00
11919	1,000	95	160	10	61.00	61.00
11920	1,300	100	185	10	69.00	69.00
11921	1,500	100	200	10	82.00	82.00

RCT®-Accessories: Cover for Packaging Jars - unicolour

Produkt specifikation
- Covers with sealing lips to Packaging Jars 11916-11921.

Item	Suitable for	Colour	Unit piece	Price EURO
11893	250 / 500 / 750 / 1.000 ml	white	1	1.00
11894	250 / 500 / 750 / 1.000 ml	black	1	1.00
11895	250 / 500 / 750 / 1.000 ml	red	1	1.00
11896	250 / 500 / 750 / 1.000 ml	blue	1	1.00
11897	250 / 500 / 750 / 1.000 ml	yellow	1	1.00
11880	1.300 / 1.500 ml	white	1	2.00
11881	1.300 / 1.500 ml	red	1	2.00
11882	1.300 / 1.500 ml	blue	1	2.00

THOMAPLAST®-Storage Jar made of PS - with cover

Product specification
- Transparent jar with cover made of polystyrene (PS).

Item	Volume ml	Outside Ø mm	Height mm	Unit piece	Price EURO
11968	950	105	135	5	31.00

THOMAPLAST®-Storage Jar made of LDPE

Product specification
- Translucent, shatterproof jar made of LDPE with absolutely leakproof lid.
- Resistant to chemicals and temperature up to +100 °C.

Item	Volume ml	Outside Ø mm	Height mm	Unit piece	Price EURO
61172	200	90	40	5	43.00
61173	400	110	50	5	49.00
61174	700	110	90	5	59.00
61175	1,000	125	110	5	57.00
61176	2,000	150	140	5	67.00

THOMAPLAST®-Storage Jar made of PP - with screw closure

Product specification
- Transparent jar made of PP (polypropylene) in sturdy design
- Lid made of HDPE (polyethylene)

Item	Volume ml	Outside Ø mm	Height mm	Unit piece	Price EURO
11970	250	104	50	3	27.00
11971	500	104	100	3	36.00
11972	1,000	126	126	1	22.00

THOMAPLAST®-Storage Box made of HDPE

Product specification
- Unbreakable, with leakproof snap-on lid
- Also usable as storage jar for the refrigerator or as provision jar

Item	Volume l	Dimensions mm	Height mm	Unit piece	Price EURO
61256	0.5	100 x 100	65	5	34.00
61257	1	100 x 100	130	5	41.00
61258	1	200 x 100	65	4	46.00
61259	1.5	200 x 100	95	3	39.00
61260	2	200 x 200	65	2	35.00
61261	3.2	200 x 200	95	2	37.00
61262	2	250 x 100	95	2	35.00

THOMAPLAST®-Selection and Storage Box made of PS

Product specification
- By use of partitions the storage boxes (size 330 x 220 mm) can be arranged in many variants.
- Glass-clear, with hinged lid, without partition.

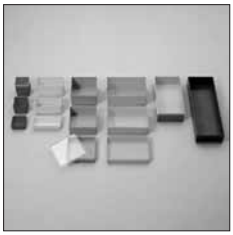
Item	Dimensions mm	Height mm	Unit piece	Price EURO
61178	140 x 85	30	1	15.00
12066	170 x 105	30	1	25.00
61180	250 x 170	45	1	47.00
61181	330 x 220	30	1	58.00
61182	330 x 220	50	1	60.00
61183	330 x 220	70	1	69.00

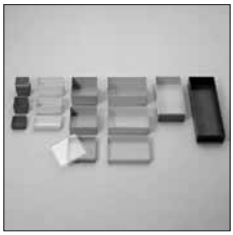
THOMAPLAST®-Insert made of PS

Product specification
- For selection- and storage boxes item 61178 - 61183 with the same height.

Item	Dimensions mm	Height mm	Colour	Unit piece	Price EURO
61185	54 x 54	23	red	10	31.00
61237	54 x 54	45	red	10	36.00
61238	108 x 54	45	yellow	10	46.00
61239	108 x 108	45	blue	7	56.00
61240	162 x 108	45	green	5	46.00
61241	215 x 108	45	light grey	4	48.00
61242	322 x 108	45	grey	3	48.00
61244	54 x 54	62	red	10	46.00
61245	108 x 54	62	yellow	7	56.00
61246	108 x 108	62	blue	5	46.00
61247	162 x 108	62	green	4	48.00

RCT®-Accessories: Cover made of PS for Partitioned Inserts - transparent





Item	Dimensions mm	For item	Unit piece	Price EURO
61249	54 x 54	61185, 61237, 61244	10	25.00
61250	108 x 54	61238, 61245	10	29.00
61251	108 x 108	61239, 61246	7	35.00
61252	162 x 108	61240, 61247	5	23.00
61253	215 x 108	61241	5	26.00
61254	322 x 108	61242	4	32.00

THOMAPLAST®-Conway Diffusion Cell made of PP

Product specification
- A knob on the cover is used to raise it, and the circular moat of the cell receives the cover, sealing off the outermost chamber.

Technical specification
- **Depth:** moat: 6 mm, central chamber: 9 mm, Inner chamber: 6 mm

Item	Outside Ø mm	Ø inner chamber mm	Ø ring chamber mm	Unit piece	Price EURO
968382	59	12.5	34	3	27.00

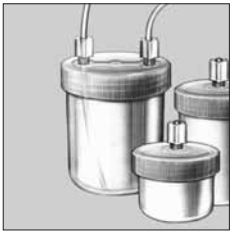
THOMAPLAST®-Weigh Jar made of PP

Product specification
- Transparent, with air-tightly closing knobbed lid
- Steam autoclavable at +120 °C

Item	Volume ml	Outside Ø mm	Height mm	Unit piece	Price EURO
96570	10	32	25	12	60.00
96572	20	38	25	12	60.00
60736	30	30	50	5	36.00
60737	25	40	30	5	41.00
60738	65	40	60	5	41.00
60739	50	50	30	5	45.00
60740	65	60	35	5	49.00
60741	200	60	90	3	30.00
60742	400	70	120	3	33.00

THOMAPLAST®-Transfer Reaction Vessel made of PFA for Fluids

Product specification
- Transfer reaction vessel made of PFA with screw cap containing one or more fittings for liquid transfer. The lid with all screw-in fittings is made in one piece. The transfer tubing (1/4") is adapted with a clamping nut made of PFA.

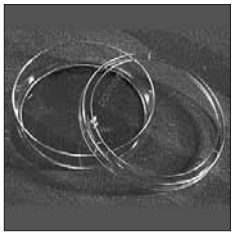


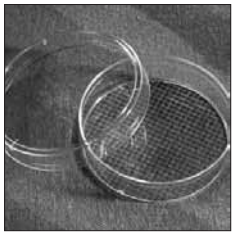
Item	Volume ml	Number of fittings	Outside Ø mm	Colour	Unit piece	Price EURO
72410	7	1	24	nature	1	44.00
72411	15	1	33	nature	1	54.00
72412	23	1	33	nature	1	59.00
72413	30	1	33	nature	1	64.00
72414	120	1	70	nature	1	85.00
72415	120	1	70	black	1	116.00
72416	180	1	70	nature	1	121.00
72417	240	1	70	nature	1	139.00
72418	240	1	70	black	1	139.00
72419	120	2	70	nature	1	139.00
72420	180	2	70	nature	1	144.00
72421	240	2	70	nature	1	162.00
72422	300	2	89	nature	1	172.00
72423	360	2	89	nature	1	187.00
72424	500	2	89	nature	1	187.00
72425	500	2	89	black	1	236.00
72426	1,000	2	110	black	1	302.00

Dishes and Crucibles

THOMAPLAST®-Cell Culture Petri Dish made of PS

Product specification
- Cell culture petri dishes are made of polystyrene (PS).
- Special treatment of the inner surface promotes growth of anchorage-dependent cells.
- Each dish is ventilated threefold to allow effective gas exchange.
- Stacking rings avoid scratches on the dishes and allow to stack the dishes in the incubation room.
- The dishes are sterile packaged.





Item	Inside Ø mm	Outside Ø mm	Height mm	Culture area cm²	Unit piece	Price EURO
40457	35	39	10	9	100	80.00
40458	35	39	10	9	300	204.00
40459	60	58	15	21	100	100.00
40460	60	58	15	21	300	255.00
40461[1]	60	58	15	21	100	90.00
40462[1]	60	58	15	21	300	245.00
40463	100	94	20	55	100	120.00
40464	100	94	20	55	300	490.00

[1] with counting grid

THOMAPLAST®-Petri Dish made of PS

Product specification
- Sterile packages
- Usable up to +80 °C
- Not suited for solvents

Item	Outside Ø mm	Height mm	Design	Unit piece	Price EURO
61072	60	16	without cams	100	60.00
61073	92	16	with cams	100	70.00
61074	140	20.6	without cams	100	70.00

THOMAPLAST®-Petri Dish made of PFA

Product specification
- Dishes stackable, coated bottom providing smooth surface

Item	Volume ml	Outside Ø mm	Height mm	Unit piece	Price EURO
72551	50	51	10	2	48.00
72552	100	102	15	2	108.00

THOMAPLAST®-Weighing Dish made of PS

Product specification
- For quick and clean weighing of powder and liquids

Item	Dimensions LxWxH mm	Unit piece	Price EURO
61077	40 x 40 x 7	25	15.00

THOMAPLAST®-Evaporating Dish made of PFA - with spout

Product specification
- Dish with spout
- Temperature loadable from -200 to +260 °C, sterilizable with all commonly used methods, Weight: approx. 55 g

Item	Volume ml	Unit piece	Price EURO
72553	100	2	74.00

THOMAPLAST®-Evaporating Dish made of PTFE - high, with spout

Product specification
- High, cylindrical dish made of PTFE with flat bottom and spout, inner surface non-porous and smooth
- Chemical-resistant except to alkali metals; free of leachable components and biocompatible
- Temperature loadable from -200 to +260 °C, sterilizable with all commonly used methods

Item	Volume ml	Ø top mm	Height mm	Unit piece	Price EURO
47906	25	38	37	1	25.00
47907	50	49	41	1	42.00
47908	100	64	54	1	48.00
47909	250	97	62	1	92.00

THOMAPLAST®-Evaporating Dish made of PTFE - with spout

Product specification
- Very sturdy, stable evaporation dish with small spout, in slightly conical design, flat bottom and smooth surface, made of polytetrafluoroethylene (PTFE).
- Resistant to chemicals and temperature up to +260 °C.

Item	Volume ml	Ø top mm	Height mm	Unit piece	Price EURO
11684	25	38	37	1	51.00
11685	50	49	41	1	59.00
11687	100	64	54	1	66.00
11686	250	125	36	1	88.00

THOMAPLAST®-PTFE Evaporating Dish - flat, without Spout

Product specification

- Flat dish made of white polytetrafluoroethylene (PTFE)
- Resistant to chemicals and temperature up to +260 °C

Item	Volume ml	Outside Ø mm	Height mm	Unit piece	Price EURO
11691	25	40	25	1	34.00
11692	50	65	23	1	35.00
11693	100	80	28	1	45.00
11694	180	80	45	1	58.00
11695	350	100	55	1	101.00

THOMAPLAST®-Crystallization Dish made of PTFE

Product specification

- Flat, straight-side dish made of PTFE with flat bottom, inner surface non-porous and smooth.
- Chemical-resistant except to alkali metals; free of leachable components and biocompatible.
- Temperature loadable from -200 to +260 °C, sterilizable with all commonly used methods.

Item	Volume ml	Ø top mm	Height mm	Unit piece	Price EURO
47911	50	66	25	1	34.00
47912	100	80	29	1	56.00
47913	250	100	56	1	80.00

THOMAPLAST®-Crucible made of PTFE

Product specification

- Crucible in slightly rounded, stable design with absolutely flat bottom and smooth surface, made of polytetrafluoroethylene (PTFE).
- Absolutely highest resistance to all kind of inorganic and organic compounds. Temperature resistant up to +250 °C.

Item	Volume ml	Ø top mm	Height mm	Unit piece	Price EURO
11688	5	25	18	1	21.00
11689	25	45	30	1	32.00
11690	75	55	44	1	44.00

Measuring Beakers and Measuring Flasks

THOMAPLAST®-Beaker made of PMP

Product specification

- Glass-clear beaker according to DIN 12331 (glass) / ISO 7056 with red imprinted graduation.
- Made of biocompatible, non-leachable polymethylpentene (PMP).
- Shatterproof and temperature-resistant to +160 °C.

Item	Volume ml	Outside Ø mm	Height mm	Graduation ml	Unit piece	Price EURO
40528	10	25	35	2	6	18.00
40529	25	31	47	5	6	21.00
40530	50	40	60	10	6	27.00
40531	100	49	70	20	6	33.00
40532	150	56	80	20	6	39.00
40533	250	68	94	50	3	24.00
40534	400	77	109	50	3	30.00
40535	600	91	125	100	3	36.00
40536	800	98	136	100	3	45.00
40537	1,000	102	149	100	3	51.00
40538	2,000	133	183	200	3	66.00
40539	3,000	174	214	200	1	49.00
40540	5,000	185	248	500	1	61.00

THOMAPLAST®-Beaker made of PP

Product specification
- Transparent, with coloured graduation
- Autoclavable at +121 °C
- Very good chemical resistance

Item	Volume ml	Outside Ø mm	Height mm	Graduation ml	Unit piece	Price EURO
60600	10	25	35	2	6	15.00
60601	25	31	47	5	6	18.00
60602	50	40	60	10	6	21.00
60603	100	49	70	20	6	24.00
60604	150	56	80	20	6	27.00
60605	250	68	94	50	6	30.00
60606	400	77	109	50	3	21.00
60607	600	91	125	100	3	24.00
60608	800	98	136	100	3	27.00
60609	1,000	102	149	100	3	30.00
60610	2,000	133	183	200	3	45.00
60611	3,000	174	214	200	1	29.00
60612	5,000	185	248	500	1	37.00

THOMAPLAST®-Beaker made of ECTFE

Product specification
- Laboratory beakers made of chemically inert ECTFE (ethylene-trifluo-rochloroethylene-copolymers), transparent with imprinted black scale, in laboratory-oriented sizes from 25 to 1000 ml.
- Antiadhesive, non-porous surface.
- Physiologically safe and biocompatible.
- Temperature resistant from -100 to +150 °C.
- Chemically and steam sterilizable.

Item	Volume ml	Outside Ø mm	Height mm	Graduation ml	Unit piece	Price EURO
41024	25	32	50	2	3	39.00
41025	50	39	59	5	3	51.00
41026	100	50	72	5	2	44.00
41027	250	67	96	5	1	38.00
41028	400	77	109	10	1	54.00
41029	600	91	125	10	1	67.00
41030	1,000	105	143	50	1	95.00

THOMAPLAST®-Beaker made of PFA for Hot Plates

Application area
- Digestion of samples and dissolving of substances
- Etching tests in metallurgy
- Reaction processes with hydrogen fluoride (HF)
- Use of very reactive catalysts
- Preparation of biologics such as sensitive cell cultures in which the binding or absorption of proteins poses a problem

Product specification
- Beakers made of PFA (perfluoroalkoxy) with beaker bottoms made of graphite which is resistant to high temperatures and transmits the heat to the PFA material.
- The fluid only contacts PFA.
- The hot plate beakers withstand highest heating temperatures without any problems, even when used with highly active or etching solutions.
- The beakers are absolutely chemical-resistant and unbreakable. Contamination due to leakage is not possible.
- The hot plate temperature should not exceed +275 °C.
- Naked flame as heat source is prohibited in any case.
- Substances must never be evaporated totally (to dryness).

Item	Volume ml	Outside Ø mm	Height mm	Unit piece	Price EURO
11709	250	75	94	1	112.00
11710	400	85	112	1	176.00

THOMAPLAST®-Tapered Measuring Beaker made of TPX

Product specification
- Transparent, shatterproof measuring beaker made of methylpentene polymers (TPX).
- Fitted with very large foot and easy-to-read engraved scale.
- Very good resistance to chemicals, but not suitable for solvents, sterilizable.
- Suited for temperatures up to +130 °C.

Item	Volume ml	Graduation ml	Unit piece	Price EURO
11728	100	2	2	35.00
11729	250	5	1	27.00
11730	500	10	1	33.00
11731	1,000	20	1	56.00

THOMAPLAST®-Beaker with Handle made of SAN - transparent

Product specification
- Glass-clear, tall measuring beaker made of styrene acrylonitrile (SAN) with pointed triangular spout and easy-to-read engraved scale. Not suited for solvents.

Item	Volume ml	Outside Ø mm	Height mm	Graduation ml	Unit piece	Price EURO
11732	250	70	120	5	6	30.00
11733	500	91	133	10	6	39.00
11734	1,000	116	170	10	3	30.00
11735	2,000	150	215	20	2	37.00
11736	3,000	170	242	50	1	25.00

THOMAPLAST®-Beaker with Handle made of PP - conical

Product specification
- Very sturdy, hot water-resistant beaker with handle made of polypropylene (PP) with flat triangular spout and printed scale, transparent and of conical shape (stackable).

Item	Volume ml	Height mm	Graduation ml	Unit piece	Price EURO	Price EURO
11726	1,000	167	10	3	30.00	30.00
11727	2,000	212	20	3	42.00	42.00

THOMAPLAST®-Beaker with Handle made of PP - cylindrical, high

Product specification
- With handle and spout; graduated, transparent

Item	Volume ml	Outside Ø mm	Height mm	Graduation ml	Unit piece	Price EURO
60613	250	70	120	5	6	30.00
60614	500	91	133	10	6	30.00
60615	1,000	116	170	10	3	21.00
60616	2,000	150	215	20	3	42.00
60617	3,000	170	242	100	1	19.00
60618	5,000	210	270	100	1	25.00

THOMAPLAST®-Scoop Beaker made of PP

Product specification
- Particularly sturdy, natural-coloured scoop beaker with broad handle for safe drawing of fluids and bulk material, made of polypropylene (PP).

Item	Volume ml	Unit piece	Price EURO
11741	1,500	1	20.00

THOMAPLAST®-Measuring Cylinder made of SAN - short

Product specification

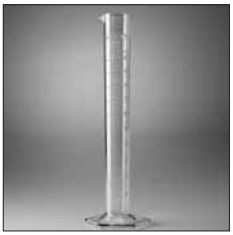
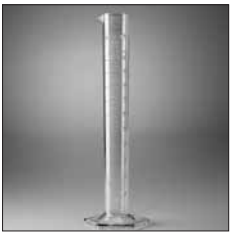
- Transparent (glass-clear), short measuring cylinder with large foot, made of styrene acrylonitrile (SAN).
- Easy-to-read scale.
- Not suitable for strong acids and solvents.

Item	Volume ml	Outside Ø mm	Height mm	Graduation ml	Unit piece	Price EURO
11719	25	25	120	0.5	6	30.00
11720	50	30	140	1	6	42.00
11721	100	40	160	2	6	45.00
11722	250	50	190	5	3	39.00
11723	500	70	220	10	3	48.00
11724	1,000	80	285	20	1	22.00

THOMAPLAST®-Measuring Cylinder made of SAN - tall

Product specification

- Transparent (glass-clear), tall measuring cylinder with large hexagonal foot, made of styrene acrylonitrile (SAN).
- Easy-to-read scale.
- Temperature resistant from -40 to +70 °C.
- Sterilizable, but not autoclavable.
- According to Class B DIN 12681 / ISO 6706.

Item	Volume ml	Outside Ø mm	Height mm	Graduation ml	Unit piece	Price EURO
11711	10	16	140	0.2	6	36.00
11712	25	21	169	0.5	6	39.00
11713	50	28	199	1	6	48.00
11714	100	34	260	1	3	36.00
11715	250	47	315	2	3	54.00
11716	500	61	350	5	2	47.00
11717	1,000	76	415	10	1	29.00
11718	2,000	97	482	20	1	60.00

THOMAPLAST®-Measuring Cylinder made of PP

Product specification

- Transparent, tall shape, graduated (according to DIN 12680)

Item	Volume ml	Outside Ø mm	Height mm	Graduation ml	Unit piece	Price EURO
60592	10	15	145	0.2	6	30.00
60593	25	22	170	0.5	6	39.00
60594	50	27	200	1	6	42.00
60595	100	33	250	1	6	45.00
60596	250	44	315	2	3	39.00
60597	500	58	360	5	3	48.00
60598	1,000	69	440	10	3	69.00
60599	2,000	97	482	20	1	39.00

THOMAPLAST®-Measuring Flask made of TPX

Product specification

- Measuring flask made of glass-clear TPX (PMP, polymethylpentene).
- Design with narrow neck, NS-stopper (standard ground joint stopper) made of PP and ring mark.
- Accuracy: Class B, adjusted up to +20 °C.

Item	Volume ml	Height mm	Size (NS)	Tolerance mm	Unit piece	Price EURO
40541	25	115	10/19	±0.08	3	39.00
40542	50	150	12/21	±0.12	3	45.00
40543	100	180	14/23	±0.20	3	51.00
40544	250	235	19/26	±0.30	2	41.00
40545	500	270	19/26	±0.50	2	43.00
40546	1,000	310	24/29	±0.80	1	23.00

THOMAPLAST®-Measuring Flask made of PP

Product specification

- Measuring flask made of highly transparent PP
- Design with narrow neck, NS-stopper (standard ground joint stopper) made of PP and ring mark.
- Tolerances class B according to DIN EN ISO 1042. Exposure to temperatures above +60 °C may effect accuracy. Cleaning up to max. +60 °C is recommended.

Item	Volume ml	Height mm	Size (NS)	Tolerance mm	Unit piece	Price EURO
60624	50	150	12/21	±0.12	3	39.00
60625	100	180	14/23	±0.20	3	42.00
60626	250	235	19/26	±0.30	3	51.00
60627	500	270	19/26	±0.50	3	54.00

THOMAPLAST®-Measuring Flask made of PFA

Product specification

- Exact metering of highly pure, bioactive or aggressive materials.
- Highly transparent measuring flask, individually calibrated ring mark according to DIN 12664, Class B.
- Made of highly chemical-resistant PFA (perfluoroalkoxy polymer) with standard thread and tight-closing screw cap made of PFA, which protects against contamination.
- Sterilizable with all commonly used methods, temperature-resistant from -200 to +260 °C.

Item	Volume ml	Height mm	External thread	Tolerance mm	Unit piece	Price EURO
12067	25	115	GL18	±0.04	1	139.00
47846	50	150	GL18	±0.06	1	149.00
47847	100	180	GL18	±0.10	1	185.00
47848	250	235	GL25	±0.15	1	231.00
47849	500	270	GL25	±0.25	1	251.00

THOMAPLAST®-Erlenmeyer Flask made of PC

Product specification

- Flask made of polycarbonate (PC), glass-clear (transparent) in particularly sturdy design with reading scale.
- Resistant to chemicals and temperature up to approximately +130 °C.

Item	Volume ml	Unit piece	Price EURO
11655	50	2	35.00
11656	125	1	22.00
11657	250	1	30.00
11658	500	1	44.00
11659	1,000	1	65.00

THOMAPLAST®-Erlenmeyer Flask made of PP

Product specification

- Flask, translucent, in sturdy, stable design, chemical- and temperature-resistant up to approx. +130 °C.

Item	Volume ml	Size (NS)	Unit piece	Price EURO
61336	25	14.5	3	39.00
61337	50	14.5	3	39.00
61338	125	14.5	3	45.00
61339	250	19	2	56.00
61341	1,000	29	1	37.00

THOMAPLAST®-Erlenmeyer Flask made of PP - with screw cap, light

Product specification

- Light design.
- Erlenmeyer flask made of highly transparent polypropylene (PP).
- Wide-neck design with thread and screw cap.

Item	Volume ml	Unit piece	Price EURO
40523	50	3	30.00
40524	100	3	33.00
40525	250	3	42.00
40526	500	2	33.00
40527	1,000	1	27.00

THOMAPLAST®-Erlenmeyer Flask made of PTFE

Product specification
- With neck, formed as standard ground joint socket
- Suitable for vacuum

Item	Volume ml	Ø bottom mm	Height mm	Size (NS)	Unit piece	Price EURO
12025	50	54	86	19/26	1	121.00
12026	100	63	128	19/26	1	156.00
94591	250	85	144	29/32	1	278.00
12027	500	107	190	29/32	1	381.00

THOMAPLAST®-Round-Bottom Flask with Standard Ground-Glass Joint made of PFA

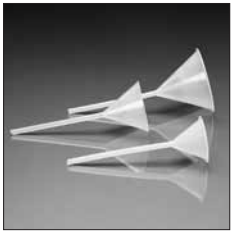
Product specification
- Temperature-loadable from -200 to +250 °C.
- Only relatively suitable for vacuum, e.g. at 30 mbar at +50 °C.

Item	Volume ml	Outside Ø mm	Height mm	Size (NS)	Unit piece	Price EURO
479171	100	65	117	29/32	1	88.00
11976	250	88	148	29/32	1	101.00
120301	500	107	177	29/32	1	140.00

Funnels and Accessories

THOMAPLAST®-Funnel made of PP

Product specification
- Funnel made of polypropylene (PP), natural-coloured



Item	Volume ml	Ø top mm	Ø outlet outside mm	Height mm	Unit piece	Price EURO
60645	5	30	5	47	6	21.00
60646	12	40	5	65	6	21.00
60647	30	50	9	85	6	21.00
60648	80	75	10	110	3	12.00
60649	220	100	13	155	3	15.00
60650	340	120	14	180	3	15.00
60651	750	150	17	220	3	18.00
60652[1]	1,600	220	22	200	1	17.00
60653[1]	3,800	250	30	260	1	19.00
60654	10,000	320	45	460	1	36.00

[1] with strainer

RCT®-Accessories: Aluminium Strainer for Funnels

Product specification
- Fitting filters item 60652 to 60653, replaceable

Item	Thickness mm	Unit piece	Price EURO
606551	0.22	5	16.00

THOMAPLAST®-Funnel made of PP - long stem

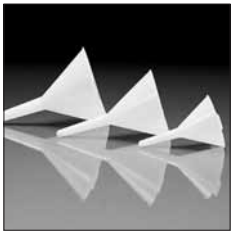
Product specification
- Analytical funnel made of polypropylene (PP) with long, narrow stem

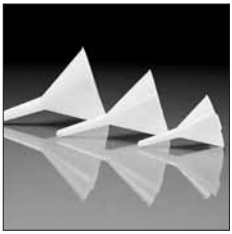
Item	Ø top mm	Length stem mm	Ø outlet inside mm	Ø outlet outside mm	Unit piece	Price EURO
11753	25	40	2	4	5	19.00
11754	35	40	3.5	5	5	24.00
11755	50	50	4	6	5	27.00
11756	60	150	4	8	2	36.00
11757	80	150	4	8	2	40.00
11758	100	150	4	8	2	45.00

THOMAPLAST®-Funnel made of PP - short stem

Product specification

- Stable laboratory funnel made of natural-coloured polypropylene (PP)





Item	Ø top mm	Ø outlet outside mm	Unit piece	Price EURO
11748	50	9	10	28.00
11749	75	10	10	37.00
11750	100	11	6	36.00
11751	120	14	5	39.00
11752	160	17	3	30.00

THOMAPLAST®-Thistle Tube made of PP

Product specification

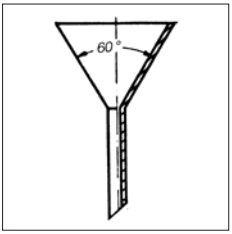
- Bell-shaped upper part
- Excellent chemical resistance
- Stands steam sterilization up to +121 °C

Item	Ø top mm	Ø flare mm	Length stem mm	Unit piece	Price EURO
60436	27	41	254	12	54.00

THOMAPLAST®-Funnel made of PTFE - conical

Product specification

- Chemical-resistant except to alkali metals; free of leachable components and biocompatible.
- Temperature loadable from -200 to +260 °C, sterilizable with all commonly used methods.

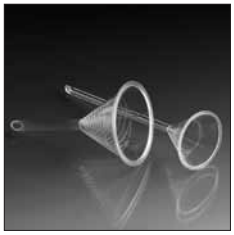


Item	Ø top mm	Ø outlet outside mm	Length stem mm	Unit piece	Price EURO
12033	18	4	12	1	39.00
12034	30	6	37	1	44.00
12035	50	7	45	1	50.00
94593	70	10	74	1	136.00
340026	100	14	90	1	136.00
340027	150	16	120	1	216.00

THOMAPLAST®-High-Speed Funnel made of TPX

Product specification

- For rapid filtration without vacuum.
- Outstandingly suited for geological, metallurgic, and gravimetric soil analyses.
- Internal helicoid ribs prevent sticking of filter paper.
- TPX (polymethylpentene) is resistant to hot, caustic and volatile matters.
- Autoclavable and temperature-resistant up to +177 °C.



Item	Ø top mm	Length stem mm	Ø outlet inside mm	Ø outlet outside mm	Unit piece	Price EURO
60419	50	150	3	7.5	2	16.00
60420	70	150	3	7.5	2	18.00
60421	70	70	3	10	1	11.00
60422	100	110	7	10	2	21.00
60423	140	130	10	16	1	23.00
60424	200	160	20	26	1	29.00

THOMAPLAST®-Powder Funnel made of PP

Product specification
- Stable laboratory funnel made of natural-coloured polypropylene (PP)

Item	Ø top mm	Ø outlet outside mm	Height mm	Unit piece	Price EURO
60655	65	18	68	5	15.00
60656	80	24	75	5	17.00
60657	100	26	94	3	18.00
60658	120	30	110	3	18.00
60659	150	32	138	2	16.00

THOMAPLAST®-Separatory Funnel made of PP

Product specification
- Leakproof screw closure made of PP.
- Self-lubricating cock and plug made of PTFE.
- Highly transparent, phase separation is clearly recognizable.
- Autoclavable except cock and plug.
- Resistant to nearly all chemicals including hydrofluoric acid.

Item	Volume ml	Unit piece	Price EURO
60782	125	1	72.00
60783	250	1	90.00
60784	500	1	94.00
60785	1,000	1	130.00

THOMAPLAST®-Separatory Funnel made of FEP

Product specification
- Transparent, shatterproof separatory funnel made of fluorinated ethylene-propylene (FEP), fitted with a easy-turnable, self-lubricating cock and leakproof screw closure. Excellent resistance to chemicals and temperature from -200 to +205 °C.
- FEP is antiadhesive and easy to clean. Filled-in substances discharge completely without adhesion to the funnel wall.

Item	Volume ml	Unit piece	Price EURO
11646	125	1	197.00
11647	250	1	220.00
11648	500	1	324.00
11649	1,000	1	378.00

RCT®-Accessories: Separatory Funnel Holder made of PP

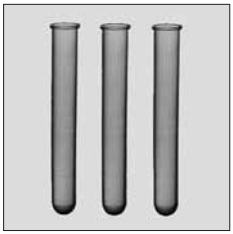
Product specification
- With clamp for support rods Ø 8-14 mm

Item	Suitable for	Unit piece	Price EURO
60831	125 - 500 ml funnels	1	23.00

Test Tubes and Centrifuge Tubes

THOMAPLAST®-Test Tube made of PS - crystal-clear

Product specification
- Cylindrical disposable tubes with or without rim made of polystyrene (PS).
- Not suitable for solvents and temperatures exceeding +70 °C and for centrifugation.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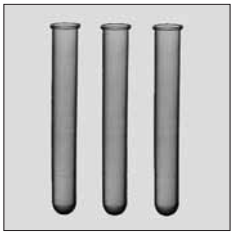
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Item	Volume ml	Outside Ø mm	Height mm	Rim	Unit piece	Price EURO
60915	4	11	55	without	250	50.00
60917	4	11	70	without	250	50.00
60918	5	12	86	with	250	50.00
60920	5	12	92	without	250	75.00
60912	10	16	100	without	250	75.00

THOMAPLAST®-Test Tube made of PP - with stopper or label

Product specification

- Translucent cylindrical or conical tubes, with stopper made of polypropylene (PP) or label.

Item	Volume ml	Outside Ø mm	Height mm	Design	Unit piece	Price EURO
609381	3	12	55	cylindrical, with stopper	250	50.00
609321	10	16	100	cylindrical, with stopper	250	75.00
609331	10	16	100	conical, with stopper	250	75.00

RCT®-Accessories: Stopper made of PE with Colour Code for Test Tubes

Item	Outside Ø mm	Colour	Unit piece	Price EURO
60931	12	blue	250	25.00
60932	12	white	250	25.00
60933	12	yellow	250	25.00
60934	12	red	250	25.00
60937	12	brown	250	25.00
60940	12	pink	250	25.00
60921	16	blue	250	50.00
60922	16	white	250	50.00
60923	16	yellow	250	50.00
60924	16	red	250	50.00
60925	16	green	250	50.00
60929	16	violet	250	50.00

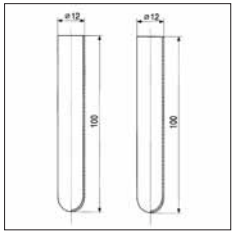
THOMAPLAST®-Centrifuge Tube made of PP - „Micro“

Product specification

- Made of PP (polypropylene), type Eppendorf®, in solid, clean design with retaining tape at the lid, heat resistant to +130 °C, sterilized
- Thin-walled lid section for perforation

Item	Volume ml	Outside Ø mm	Height mm	Cap	Unit piece	Price EURO
60661	1.5	11	40	with	250	50.00
60662	1.5	11	40	without	250	50.00

THOMAPLAST®-Centrifuge Tube made of PTFE - round bottom, without rim



Item	Volume ml	Outside Ø mm	Wall thickness mm	Height mm	Unit piece	Price EURO
12051	7	12	1	100	1	40.00
60222	12	16	1	100	1	42.00
12052	28	24	2	100	1	48.00
12053	50	34	2.5	100	1	64.00

Test Tube Racks and Desiccators

THOMAPLAST®-Sample Tube Rack made of PC

Product specification

- Unbreakable and impact-resistant racks made of crystal-clear polycarbonate, for storing of cylindrical sample tubes up to 25 mm Ø in numbered positions. Excellent stability and resistance to water, aqueous salt solutions and acids, suitable for placing in water baths, e.g. for derivatization of analytical samples etc. Scratch-proof, non-porous surface, dirt-repellent and easy to clean. Allows non-slip stacking up to 100 mm height even when filled with tubes.

Item	Number of places	Dimensions LxWxH mm	Suitable for Ø tubes mm	Unit piece	Price EURO
83252	72	234 x 113 x 108	10 - 13	1	76.00
83253	40	270 x 112 x 133	13 - 16	1	76.00
83255	40	322 x 127 x 133	21 - 25	1	76.00

THOMAPLAST®-Test Tube Rack made of LDPE

Item	Number of places	Dimensions LxWxH mm	Ø tubes mm	Unit piece	Price EURO
60734	12	190 x 60 x 80	21	1	25.00
60735	24	375 x 65 x 85	21	1	50.00

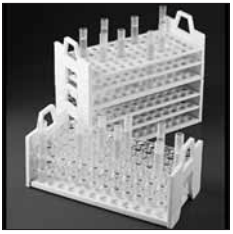
THOMAPLAST®-Test Tube Rack made of PVC

Item	Design	Dimensions LxWxH mm	Price EURO
60952	for 20 test tubes up to 12 mm Ø	120 x 110 x 65	43.00
60953	for 20 test tubes up to 18 mm Ø	140 x 120 x 65	43.00
60954	for 40 test tubes up to 12 mm Ø	240 x 110 x 65	54.00

THOMAPLAST®-Sample Tube Rack made of PP

Product specification

- Unbreakable and impact-resistant racks made of chemical-resistant, opal-white polypropylene, for storing of cylindrical sample tubes up to 30 mm Ø in numbered positions. Scratchproof, non-porous surface, dirt-repellent, easy to clean, and autoclavable. Allows non-slip stacking up to 100 mm height even when filled with tubes.



Item	Number of places	Dimensions LxWxH mm	Suitable for Ø tubes mm	Unit piece	Price EURO
83247	72	229 x 111 x 130	11 - 13	1	44.00
83248	40	263 x 111 x 130	13 - 16	1	46.00
83249	40	263 x 111 x 130	16 - 20	1	46.00
83250	40	318 x 111 x 130	21 - 25	1	57.00
83251	24	292 x 111 x 130	26 - 30	1	57.00

THOMAPLAST®-Desiccator made of PP/PC

Product specification

- Conventionally built desiccator with a bottom made of polypropylene and an easily removable flat-domed top made of fully transparent polycarbonate, with ribbed knob.
- The bottom can be filled with a desiccant. The material to be dried is placed on the perforated plate made of PP. The cover seals with an O-ring made of Neoprene®.
- Large interior volume, low weight, unbreakable and implosion-proof. Temperature-loadable up to +120 °C, not suited for working with organic solvents.
- Available in 2 designs
  The design with cock: A laterally joined stopcock with lubrication-free PTFE-plug for air entrance can be connected with a 1/4“ (6.3 mm) vacuum tubing. The desiccator is additionally vacuum-tight for 24 h at +20 °C under 29.9“ Hg (759 mm).

Item	Design	I-Ø	Ø disc	O-Ø	Clearance above plate	Outside height	Price
		mm	mm	mm	mm	mm	EURO
94020	with cock	149	140	171	121	206	108.00
94022	with cock	197	190	230	157	260	136.00
94024	with cock	240	230	273	197	311	151.00
94026	without cock	150	140	171	121	206	59.00
94027	without cock	200	190	230	157	260	79.00
94028	without cock	240	230	273	197	311	113.00

THOMAPLAST®-Desiccator made of PC

Product specification

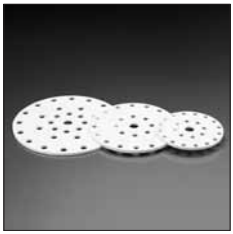
- Conventionally built desiccator made of strong, fully transparent polycarbonate. Easily removable flat-domed top with ribbed knob and laterally joined 1/4" stopcock for evacuation. Stable bottom with non-skid fitted perforated plate made of 3.2 mm thick polypropylene. Vacuum-tight seal not requiring grease with O-ring made of Neoprene®. Large interior volume, low weight and unbreakable. Temperature-loadable up to +120 °C, not suited for working with organic solvents.

Item	Volume	I-Ø	Ø disc	O-Ø	Clearance above plate	Outside height	Price
	l	mm	mm	mm	mm	mm	EURO
83273	2.1	149	140	171	121	206	158.00
83274	4.7	197	190	230	157	260	226.00
83275	8.9	240	230	273	197	311	289.00

RCT®-Accessories: Desiccator disc made of PP

Product specification

- Disc made of polypropylene.
- Usable up to a max. of +120 °C.



Item	Ø disc mm	Unit piece	Price EURO
94035	140	1	27.00
94036	190	1	35.00
94037	230	1	41.00

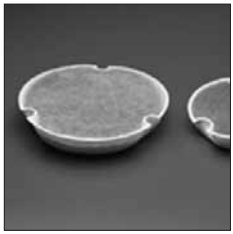
RCT®-Accessories: Desiccating Cartridge

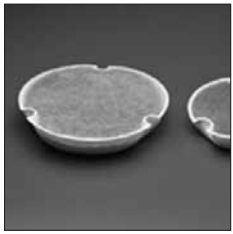
Application area

- Desiccant in desiccators
- Air conditioning in microbalances
- Air conditioning of sensitive optical devices

Product specification

- Active but chemically inert silica gel for water absorption, capsulated in a shatterproof fibre-reinforced polyester cartridge with gas-permeable fine-perforated Mylar®-cover. Highly effective due to large surface of the gel beads. Blue/red colour indicator for indication of the exhaustion degree. Regeneration at +150 °C in a drying cabinet. Ready for immediate use. Available in three different sizes, preferably for THOMAPLAST®-vacuum desiccators, item 83273 to 83275 as well as 94020, 94022, and 94024.





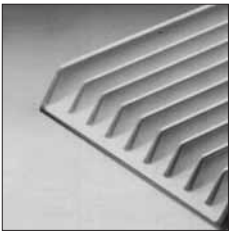
Item	Outside Ø	For desiccator Ø	Weight	Unit	Price
	mm	mm	g	piece	EURO
83279	114	up to 160	230	1	54.00
83280	197	up to 200	680	1	96.00
83281	238	up to 250	1,360	1	164.00

Cases, Trays, Bowls, Pails and DEWAR-Vessels

THOMAPLAST®-Drawer Tray made of PVC

Product specification

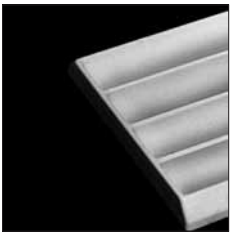
- Type I: Contains 9 compartments for small flasks of 25 mm Ø. For storage of blood samples, chemical analysis samples, coagulation substances etc.
- Type II: Tray with 12 compartments allows separately arranging small accessory parts in the drawer, such as standard stoppers, bottle stoppers, capsules etc.
- Type III: With 5 cavities of different sizes for pipettes, thermometers, connectors etc.



Item	Type	Dimensions LxWxH mm	Unit piece	Price EURO
60730	I	300 x 355 x 45	1	64.00
60731	II	300 x 410 x 65	1	74.00
60732	III	300 x 410 x 70	1	68.00

THOMAPLAST®-Pipette Tray Rack made of PVC

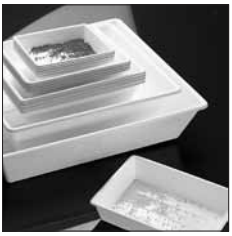
Product specification
- Suitable for all lab drawers



Item	Dimensions LxWxH mm	Unit piece	Price EURO
60733	420 x 300 x 40	1	49.00

THOMAPLAST®-Experimental Tray made of PP

Product specification
- Experimental tray made of shatterproof, surface-polished polypropylene (PP). Rounded edge.
- Temperature-resistant from -20 to +135 °C, sterilizable.
- Suitable for food.
- Tray is also available made of electrically conductive polypropylene (explosion protection and semiconductor technology resp.).



Item	Volume l	Inner dimension of base LxW mm	Outer dimension of rim LxWxH mm	Unit piece	Price EURO
40039	0.5	130 x 180	180 x 230 x 42	3	30.00
40040	1.5	180 x 240	250 x 310 x 65	3	48.00
40041	3	240 x 300	310 x 370 x 75	2	46.00
40042	10	300 x 400	420 x 520 x 120	1	39.00
40043	21	400 x 500	534 x 634 x 140	1	54.00
40044	39	500 x 600	648 x 846 x 160	1	75.00

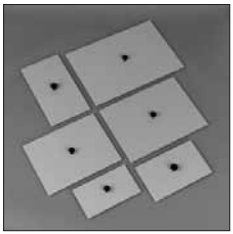
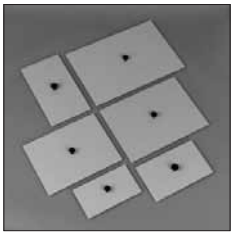
THOMAPLAST®-Lab Storage Container made of PP

Product specification
- Particularly suitable for chemicals or for use as water bath and storage container. In shatterproof chemical-resistant design. Usable up to +90 °C.

Item	Dimensions LxWxH (inside) mm	Wall thickness mm	Price EURO
61043	220 x 120 x 120	5	150.00
61044	250 x 150 x 150	5	153.00
11612	300 x 160 x 160	5	159.00
11613	300 x 220 x 220	5	183.00
11614	350 x 250 x 160	5	176.00
11615	420 x 280 x 260	5	199.00

RCT®-Accessories: Flat Cover with Handle made of PP

Product specification
- Suitable for lab storage containers made of PP.
- Usable up to +90 °C.
- Cover-thickness: 10 mm

Item	For item	Unit piece	Price EURO
61093	61043	1	46.00
61094	61044	1	49.00
61095	11612	1	54.00

Item	For item	Unit piece	Price EURO
61096	11613	1	58.00
61097	11614	1	64.00
61098	11615	1	70.00

THOMAPLAST®-Staining Box made of PFA

Product specification

- Staining box with cover for slides of 25 x 75 mm size

Item	Dimensions LxWxH mm	Colour	Price EURO
72549	39 x 83 x 19	nature	106.00

THOMAPLAST®-Reaction Pan made of PFA

Item	Dimensions LxW mm	Colour	Price EURO
72548	25 x 101	nature	59.00

THOMAPLAST®-Lab Pan made of PFA

Item	Volume ml	Dimensions LxWxH mm	Colour	Price EURO
72550	700	150 x 100 x 50	nature	139.00

THOMAPLAST®-Chemical Bowl made of PP

Product specification

- Chemical bowl made of polypropylene (PP) for transport of reagent containers as well as solid and liquid chemicals. An indispensable tool due to its resistance to inorganic and organic compounds.

Item	Dimensions mm	Height mm	Unit piece	Price EURO
28653	160	70	3	27.00
28654	200	80	2	21.00
28655	240	100	2	27.00
28656	280	120	2	35.00
28657	320	130	2	45.00
28658	360	150	2	47.00
28659	400	180	2	54.00

THOMAPLAST®-Chemical Pail made of LDPE

Product specification

- Chemical pail made of very strong LDPE (white) with bail made of metal.
- A stable grip edge in the pail bottom allows safe pouring through wide spout.
- Prominent liter scale permits easy control of volume.

Item	Volume l	Height mm	Outside Ø mm	Colour	Unit piece	Price EURO
40009	10	280	290	white	1	40.00
40011	15	340	320	white	1	55.00

THOMAPLAST®-Packaging Bucket made of PP

Product specification

- Bucket made of white polypropylene (PP) for transport, packaging and storage of various substances
- Especially suitable for food and building materials, and non-aggressive chemicals in the environment and hospitals with tightly closing cover
- A strong metal handle with the lock on the bucket guarantees product safety

Item	Volume l	Height mm	Outside Ø mm	Unit piece	Price EURO
40013	1	131	132	5	29.00
40014	1	131	132	10	44.00
40015	2	132	175	5	40.00
40016	2	132	175	10	60.00
40017	3	132	225	5	58.00
40018	3	132	225	10	86.00
40019	5	194	225	5	61.00
40020	5	194	225	10	90.00
40021	10	263	268	5	80.00
40022	10	263	268	10	120.00

THOMAPLAST®-Ice and Cooling Tray

Application area

- For safe and clean deposition as well as the transport of lab glass, lab and analytical samples, chemical storage containers, instruments, fittings and tools. Also for use as damage tray in technical, chemical, and radiochemical pilot plants or as trough for etching and cooling baths.

Product specification

- Splatterproof rectangular tray with high edge made of foamed, temperature-insulating and polyvinylchloride (PVC), jointless moulded in one piece, walls slightly inclined, rounded corners and edges, molded-in continuous grip bead. Non-porously densified, smooth, scratch- and impact-resistant, easy to clean surface, hygienic, odourless and flavourless, free of water-leachable components. Resistant to many chemicals and additives, such as salts and salt solutions, also to cyanide and bichromate solutions, photo chemicals, mineral and silicone oils, vegetable and animal oils, alcohols and glycols, petrol, diesel, formaldehyde, acetone, mercury, accu acids, sulfuric acid, chromosulfuric acid, nitric acid up to 50 %, alkalis, hydrogen peroxide, dry ice, liquid nitrogen etc.
- Not resistant to aromatic solvents except benzyl alcohol, halogenated solvents, esters and tetrahydrofuran (THF), temperature-resistant from -196 to +95 °C.

Technical specification

- **Inside:** 360 x 270 x 100 mm
- **Outside:** 420 x 330 x 130 mm
- **Sidewall thickness:** 20 mm

Item	Volume l	Colour	Unit piece	Price EURO
41006	10	red	1	213.00
41007	10	black	1	213.00

THOMAPLAST®-Ice Bucket made of Foamed PVC

Product specification

- For taking up of dry ice or flake ice and freezing mixtures, liquid nitrogen and heating baths. Temperature range of -200 to +80 °C. Due to their favourable properties they are used in many labs and serve as containers for ice or freezing mixtures to cool reactions or biochemical systems. Completely smooth and liquid-tight at the surface, inside porous and heat-insulating, light-weighted, unbreakable and flexible but dimensionally stable, of good chemical resistance.

Item	Volume l	Outside Ø mm	Height mm	Colour	Price EURO
940001	5	280	190	black	95.00

THOMAPLAST®-DEWAR-Vessel made of XLPE Plastic

Product specification

- The first shatterproof DEWAR vessel made of plastic for working in the low-temperature range. The double walls are made of new cross-linked polyethylene (XLPE-plastic) being resistant to thermic shock up to -196 °C. The cover is made of expanded polystyrene with vent. The Dewar vessel features outside moulded-in ribs for stability and a convenient plastic-coated bail-type handle except the 10 liter vessel.
- Temperature range: -196 to +100 °C.
- The vessel should be well cooled before putting it into operation!

Item	Volume l	Dimensions ØxH (inside) mm	Height mm	Price EURO
95051	1	95 x 195	230	195.00
95052	2	125 x 225	290	295.00
95054	4	165 x 290	355	295.00
95055	10	205 x 380	470	346.00

Laboratory Instruments
Scoops, Spoons, Spatulas and Tweezers

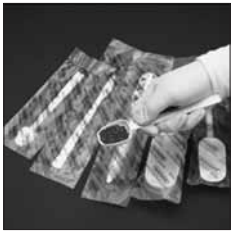
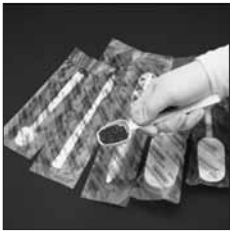
THOMAPLAST®-Sample Spatula - sterile

Product specification
- Sterile spatula for direct sampling out of bags without contamination.
- Permanent handle.
- Sturdy edges break up any caked material.

Item	Volume ml	Length mm	Unit piece	Price EURO
60402	36	230	20	72.00

THOMAPLAST®-Sample Spoon - sterile

Product specification
- For drawing of small amount of sample material.
- The long handle allows drawing of samples in depth without hazard of contamination of the hand.
- Made of styrene, sterile and individually packaged.

Item	Volume ml	Length mm	Unit piece	Price EURO
60404	1.2	180	50	150.00
60405	2.5	180	50	150.00
60406	5	180	50	150.00
60407	15	180	50	150.00

THOMAPLAST®-Scoop made of HDPE

Product specification
- Natural colouring and conical in shape with tapered filling edge.

Item	Volume ml	Length mm	Unit piece	Price EURO
60637	15	115	3	12.00
60638	25	135	3	15.00
60640	110	210	3	15.00
60641	150	250	3	15.00
60642	350	310	2	14.00
60643	500	350	2	20.00
60644	1,000	400	2	32.00

THOMAPLAST®-Metering Scoop made of PP

Product specification
- Unbreakable scoops made of polypropylene (PP) with flat, beveled edge and reinforced handle. Volume marking well visible on the handle. Sterilizable up to +130 °C, chemical-resistant.

Item	Volume ml	Length mm	Width mm	Unit piece	Price EURO
40549	2	60	15	12	18.00
40550	2	60	15	24	36.00
40551	5	82	24	12	24.00
40552	5	82	24	24	36.00
40553	10	100	34	12	24.00
40554	10	100	34	24	36.00
40555	25	135	44	12	36.00
40556	25	135	44	24	60.00
40557	50	160	55	12	48.00
40558	50	160	55	24	72.00
40559	100	200	70	6	45.00
40560	100	200	70	12	60.00
40561	250	260	90	6	66.00
40562	250	260	90	12	102.00

Item	Volume ml	Length mm	Width mm	Unit piece	Price EURO
40563	500	315	118	3	48.00
40564	500	315	118	6	69.00
40565	1,000	385	134	1	21.00
40566	1,000	385	134	3	48.00

THOMAPLAST®-Scraper made of PP

Product specification

- Very sturdy, unbreakable, chemical-resistant scraper made of polypropylene (PP), sterilizable up to +121 °C, colour: white.

Item	Length mm	Width mm	Unit piece	Price EURO
11768	205	75	2	35.00
11769	250	110	2	40.00

THOMAPLAST®-Sieve with Perpendicular Handle made of PFA

Product specification

- Sieve with long handle (approx. 18 cm) and suspension device. Optionally different mesh sizes (0.5 and 1.0 mm resp.); for cups with an internal diameter up to 7.6 cm.

Item	Mesh size µm	Dimensions ØxH mm	Price EURO
72556	500	19 x 64	108.00
72557	1,000	19 x 64	108.00

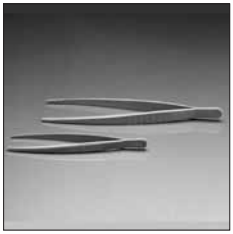
THOMAPLAST®-Tweezers made of Nickel-Plated Forged Steel - PTFE-Coated

Item	Design	Length of PTFE coating mm	Unit piece	Price EURO
60473	straight point	38	2	38.00
60474	straight point	19	2	36.00
60475	straight point	98	2	49.00
60476	serrated and curved point	98	2	47.00

THOMAPLAST®-Tweezers made of POM

Product specification

- Made of POM (polyoxymethylene)
- Yellow, blunt, elastic, very good resilience.

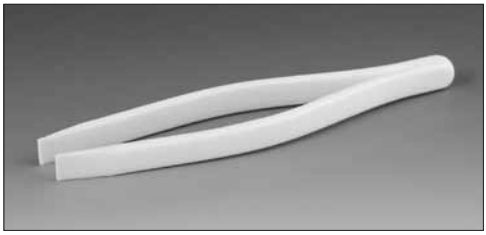


Item	Length mm	Unit piece	Price EURO
60633	115	3	12.00
60634	145	3	12.00
60635	180	2	13.00
60636	250	2	17.00

THOMAPLAST®-Tweezers made of PTFE - with blunt ends

Product specification

- Completely metal-free tweezers with blunt ends. Electrically non-conducting, chemical-resistant, free of leachable components and biocompatible; temperature-resistant from -200 to +260 °C, sterilizable with all commonly used methods.

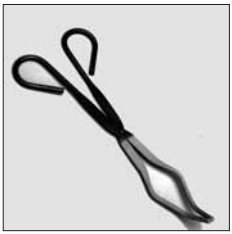


Item	Length mm	Unit piece	Price EURO
47942	100	1	45.00
47943	150	1	60.00
47944	200	1	66.00

THOMAPLAST®-Spatula made of Chromium Nickel Steel with PTFE Coating

Item	Design	Length mm	Unit piece	Price EURO
60259	one flat end, one spoon end	225	1	64.00
60258	double flat ends	200	1	36.00
60257	both sides leaf-shaped (Hayman Style)	150	1	39.00
60253	tapered pallet (hardwood handle)	150	1	61.00

THOMAPLAST®-Crucible Tong with PTFE Coating



Item	Length mm	Length of PTFE coating mm	Unit piece	Price EURO
60256	240	75	1	51.00

Pestles and Mortars

THOMAPLAST®-Pestle for microcentrifuge tubes

Application area

- Resuspending, homogenizing, dissolving of small and smallest material quantities without losses in microcentrifuge tubes.

Product specification

- Conical PTFE body, fitting into THOMAPLAST®-microcentrifuge tubes, item 60661 and 60662 resp., with precisely centred stainless steel shaft (143 x 3.2 mm), for manipulations by hand or with motor actuator.

Item	Unit piece	Price EURO
83270	1	80.00

THOMAPLAST®-Pestle / Mortar

Product specification

- Made of melamine, white.

Pestles

Item	Ø flask mm	Length mm	Weight g	Unit piece	Price EURO
60665	30	125	55	1	26.00
60666	35	145	85	1	26.00
60667	40	160	120	1	31.00
60668	42	245	175	1	57.00

Mortars

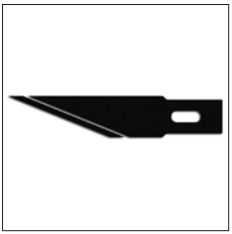
Item	Volume ml	Outside Ø mm	Height mm	Unit piece	Price EURO
60663	300	125	75	1	21.00
60664	500	150	90	1	23.00

Precision Knives and Scalpels

THOMAPLAST®-Mini Precision Knife with Pointed Blade - ground on one side

Product specification

- Knife handle made of aluminum.
- Precision blade made of stainless steel, very pointed.
- Replacement of blades by loosening the grip head.

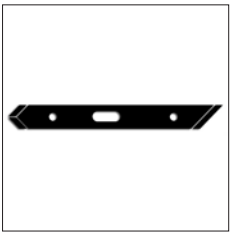


Item	Design	Unit piece	Price EURO
81168	precision knife	2	24.00
81169	replacement blade	10	20.00

THOMAPLAST®- Mini Precision Knife with Pointed Blade - ground on three sides

Product specification

- Knife with retractable, three-sided ground blade
- Handle and blade holder made of stainless steel
- Precision changeover blade made of stainless steel
- With clip



Item	Design	Unit piece	Price EURO
81172	precision knife	3	36.00
81173	replacement blade	10	20.00

THOMAPLAST®-Precision Knife with Curved Blade

Product specification

- Precision knife as scalpel-style knife (mini-precision knife) or as pen-style knife available
- Scalpel-style knife: replacement of blades by loosening the cone
- Pen-style knife: with clip

Technical specification

- **Material scalpel-style knife:** blade: stainless steel
  handle: aluminium
- **Material pen-style knife:** blade: stainless steel
  blade holder: aluminium, handle: plastic

81170 / 81174

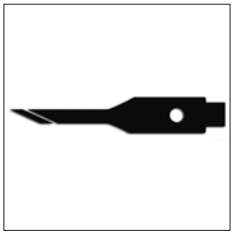
81171

Item	Design	Unit piece	Price EURO
81170	knife, mini scalpel-style	3	24.00
81174	knife, pen-style	1	12.00
81171	replacement blade	1	2.00

THOMAPLAST®-Super Precision Knife for Particularly Fine Cuts

Product specification

- Exchangeable blade



Item	Design	Unit piece	Price EURO
81182	precision knife	2	26.00
81183	replacement blade	10	20.00

THOMAPLAST®-Scalpel made of Steel

81165

Product specification
- Handle made of steel, forged and chromium plated
- Exchangeable blade
- Suitable for heavy-duty applications

Item	Scalpel blade No.	Unit piece	Price EURO
81165	21	2	32.00
81166	24	2	32.00
81167	25	2	32.00

Metering Facilities and Metering Devices

THOMAPLAST®-Pipette made of HDPE

Product specification
- For use as suction and metering pipette.
- When filled, the pipette is not self-discharging.
- Resistant to acids and solvents.

Item	Volume ml	Length mm	Graduation ml	Unit piece	Price EURO
61129	1.5	135	0.5	50	40.00
61130	5	195	1	50	45.00

THOMAPLAST®-Universal Bulb Pipette made of PP

Product specification
- Volumetric pipette made of polypropylene (PP).
- Transparent, permanently coloured ring mark (blue) and marking.
- Temperature resistant: up to +70 °C, at higher temperatures a volume change occurs.

Item	Volume ml	Length mm	Unit piece	Price EURO
40836	1	300	3	39.00
40837	2	300	3	48.00
40838	5	330	3	63.00
40899	10	440	3	72.00
81041	25	460	1	64.00
81042	50	470	1	69.00
81043	100	610	1	136.00

THOMAPLAST®-Pipette Suction Bulb made of NR

Product specification
- Pipette suction bulb made of natural rubber (NR) for pipettes of all sizes.

Item	Colour	Unit piece	Price EURO
40270	red	30	27.00
40271	red	50	30.00
40272	transparent	30	27.00
40273	transparent	50	30.00

THOMAPLAST®-Squeeze-Bulb Pipette Filler made of NR

Product specification
- Pipette filler made of natural rubber (NR) for any application area. The fillers are resistant to chemicals. Carefully chosen plastics avoid sticking and brittling.
- The standard types (DNV 1) are suited for pipettes up to 10 ml. For pipettes with volumes exceeding 10 ml the universal model (DNV 2) has to be used.

Item	Type	Unit piece	Price EURO
28645	DNV1	1	30.00
28647	DNV2	1	35.00

THOMAPLAST®-Macro Pipetting Aid

Product specification

- Suction by means of a macro volume suction bellows, one stroke of the bellows amounts to 50 ml.
- Control: Adjustment of the meniscus and dispensing (free discharge) is effected by a control lever.
- In case of blow-out pipettes the "blow-out function" is activated by pressing the blow-out bellows.
- For use with volumetric, measuring and blow-out pipettes made either of glass or plastics with a volume range of 0.1 to 100 ml.
- A hydrophobic membrane filter protects the pipetting system against entering liquid.
- Pipetting aid end adapter and protection filter can be steam sterilized up to +121 °C, 20 min.
- Low weight: approx. 95 g.
- Accessory: Pipetting suction bellows item 40879 (www.rct-online.de).

Item	Unit piece	Price EURO
40883	1	87.00

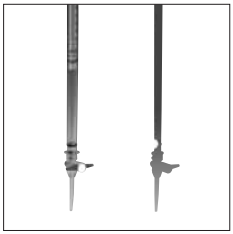
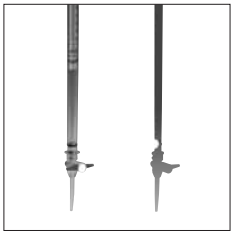
RCT®-Accessories for Pipette

Item	For item	Design	Unit piece	Price EURO
81079	58694-98 + 58708-09	pipette tip	500	100.00
81080	58699-703 + 58710-12	pipette tip	500	100.00
12068	58704-07 + 58713	pipette tip	500	100.00
58715	58714	pipette tip	100	50.00
58716	58714	protection filter (fibre)	100	50.00

THOMAPLAST®-Safety Volumetric Burette with Schellbach Stripes

Product specification

- Plastic-coated burette made of borosilicate glass 3.3. Class B. Conformity with DIN ISO 384. With Schellbach stripes (blue/white) and easily readable black scaling. Calibrated to deliver ‚Ex'. The stopcock of the burette turns easily and allows fine titration.
- The temperature-resilient plastic coating helps the entire device to resist breakage and glass fragments are confined within the sheath.
- Material: burette of borosilicate glass 3.3, burette stopcock PMP/PTFE.

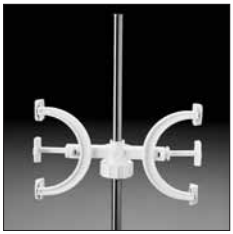
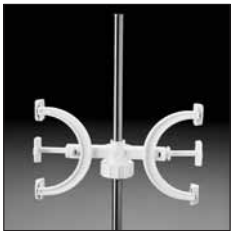



Item	Volume ml	Graduation ml	Length mm	Unit piece	Price EURO
28681	50	0.1	800	1	95.00
28682	25	0.05	800	1	80.00

THOMAPLAST®-Burette Clamp made of PP - double

Product specification

- For support rods 8-14 mm Ø

Item	Max. number of burettes	Unit piece	Price EURO
60779	2	1	50.00

THOMAPLAST®-Variable Volume Dispenser made of PE

Product specification

- Storage bottle with capacity of 0.25 l and 0.5 l resp. and tightly screwable measuring chamber, both made of unbreakable, physiologically safe and chemically inert polyethylene, for clean and rapid metering of adjustable volumes from 5 to 50 ml. Free of extractable components, suitable for organic reagents, scintillation solutions, buffers, solvents, alkalis and acids, except concentrated sulfuric and nitric acid.

- Slightly squeezing the handy storage bottle forces the liquid to be metered through the fill tube of the metering chamber into the measuring vessel. Overfill is sucked back into the bottle when pressure is released. The metered liquid can be poured off the measuring vessel without problems.
- The required volume is adjusted by moving the fill tube.

Item	Capacity bottle ml	Capacity measuring vessel ml	Unit piece	Price EURO
12069	250	25	2	40.00
83260	500	50	2	42.00

THOMAPLAST®-Titration Apparatus

Product specification

- Automatic burette acc. to Dr. Schilling with pushbutton dispenser and microscrew, which facilitates precise titration. Rapid filling of the burette by squeezing the polyethylene bottle. Automatic self-zeroing. Alternatively available with screw cap for adjustable zeroing or firmly melted-in adjustable zero point. With blue scale, better than class B, extremely resistant to acids, alkalis and solvents. The blue graduation allows optimal reading and is made of self-coloured melted-on glass. The surface of the glass burette is not hurt - decreased risk of breakage. Rapid pre-titration with pushbutton until just before reaching the indicator transition, precise titration with microscrew.

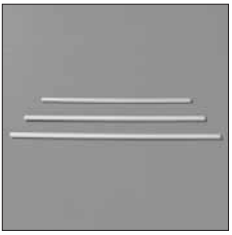
Item	Capacity burette ml	Graduation ml	Accuracy ml	Capacity bottle ml	Price EURO
60866	5	0.05	±0.015	500	92.00
60867	10	0.05	±0.030	500	92.00
60868	15	0.1	±0.045	500	92.00
60869	25	0.1	±0.045	1,000	92.00
60870	50	0.1	±0.060	1,000	98.00

Stirring and Mixing
Stirrers and Stirring Devices

THOMAPLAST®-Stirring Bar made of PTFE

Product specification

- PTFE coated steel core with round ends.
- Can be bent as required; the shape is permanently retained.



Item	Length mm	Outside Ø mm	Unit piece	Price EURO
60240	100	6	1	30.00
60241	150	6	1	33.00
60242	200	6	1	34.00
60243	250	6	1	40.00
60244	300	6	1	44.00
60245	350	6	1	51.00
60246	400	6	1	60.00
60247	600	6	1	129.00

THOMAPLAST®-Stirring Spatula made of PTFE

Item	Length mm	Width mm	Unit piece	Price EURO
60249	120	16	1	20.00
60250	150	16	1	21.00
60251	180	16	1	25.00

THOMAPLAST®-Stirrer made of PP - round blades

Product specification

Shaft mounted stirrer made of steel with PP coating. Stirrer blades made of PP. Two blades in different sizes (A and B) spreading at rotation:

- A: Width of blades when completely spreaded: 60 mm. Stirrer shaft Ø: 8 mm. Length: approx. 350 mm. Fits through a bottle neck of 26 mm Ø.
- B: Width of blades when completely spreaded: 100 mm. Stirrer shaft Ø: 8 mm. Length: approx. 350 mm. Fits through a bottle neck of 29 mm Ø.

Item	Blade width mm	Ø bar mm	Ø neck mm	Length mm	Unit piece	Price EURO
60835	60	8	26	350	1	39.00
60836	100	8	29	350	1	39.00

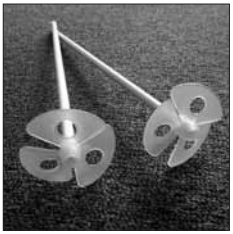
THOMAPLAST®-Stirrer made of PP - propeller

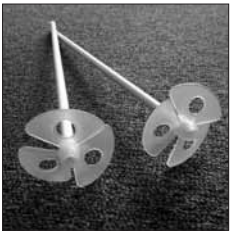
Application area

- Stirring and mixing of low viscous and corrosive media, particularly for preparation of suspensions and emulsions.

Product specification

- Shaft mounted stirrer with precisely centred, polypropylene-coated steel shaft and three slightly staggered cloverleaf-shaped, fixed and sturdy stirrer blades. Low resistance and high efficiency.





Item	Length mm	Blade width mm	Ø bar mm	Unit piece	Price EURO
83292	350	60	8	2	85.00

THOMAPLAST®-Stirring Bar Retriever made of PTFE

Product specification

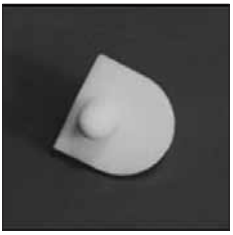
- With magnetic core, sturdy design and temperature-resistant up to +275 °C.

Item	Length mm	Magnet-Ø mm	Bar-Ø mm	Unit piece	Price EURO
61138	150	10	8	1	25.00
61139	250	10	8	1	27.00
61140	300	10	8	1	28.00
61141	350	10	8	1	30.00

THOMAPLAST®-Magnetic Stirrer made of PTFE for Tubes

Product specification

- For small centrifuge tubes and reaction cups
- Triangular shape



Item	Design	For jars ml	Inside Ø mm	Unit piece	Price EURO
12064	triangular	>= 3	8	1	17.00
96116[1]	triangular, long	>= 5	10	1	20.00
96118	half-round, long	>=10	13.5	1	23.00
96117[2]	half-round	>=20	15	1	23.00

[1] only for conical jars [2] only for round jars

THOMAPLAST®-Magnetic Stirring Bar made of PTFE - Standard

Product specification

- Stirring bars with permanent-magnetic core, PTFE-coated, without pivot ring, non-contaminating.

Item	Length mm	Outside Ø mm	Unit piece	Price EURO
40676	2.4	2.4	3	21.00
40677	3	3	3	21.00
40678	5	2	3	24.00
40679	6.3	3	3	24.00
40680	7	2	3	27.00
40681	8	2	3	27.00
40682	8	3	4	30.00
40683	10	3	3	24.00
40684	10	6	5	25.00
40685	13	3	3	30.00
40686	15	4.5	5	34.00
40687	15	2	2	28.00
40688	15	6	5	34.00
40689	20	6	5	35.00
40690	25	6	5	33.00
40691	30	6	5	36.00
40692	35	6	4	36.00
40693	40	8	4	36.00
40694	45	8	3	36.00
40695	50	8	3	33.00

Item	Length mm	Outside Ø mm	Unit piece	Price EURO
40696	60	9	2	30.00
40697	70	9	2	30.00
40698	80	10	2	31.00
961091	108	27	1	164.00
961092	159	27	1	195.00

THOMAPLAST®-Magnetic Stirring Bar made of PTFE - highly resistant

Product specification

- With highly resistant coating for concentrated acids, dyes etc.

Item	Length mm	Outside Ø mm	Unit piece	Price EURO
961011	22	6	1	18.00
961012	13	9.5	1	18.00
961014	25	9.5	1	18.00
961016	38	9.5	1	23.00

THOMAPLAST®-Magnetic Stirring Bar made of PTFE - triangular

Product specification

- Triangular stirring bars with permanent-magnetic core, PTFE-coated.

Item	Length mm	Outside Ø mm	Edge length mm	Unit piece	Price EURO
40659	12	8	6	3	18.00
40660	20	8	8	3	21.00
40661	25	8	8	3	21.00
40662	25	14	15	3	36.00
40663	35	10	10	3	24.00
40664	40	14	15	3	39.00
40665	50	12	12	3	36.00

Item	Length mm	Outside Ø mm	Edge length mm	Unit piece	Price EURO
40666	55	14	15	2	36.00
40667	80	17	16	1	27.00

THOMAPLAST®-Laboratory Magnet Stirrer

Product specification

- Large and flat work surfaces, which are easy to clean
- Compact, space-saving design
- Automatic start-up for safe acceleration of the stirring bar
- Adjustable stirring power, regardless of the speed control
- User-friendly control by rotary knob

Technical specification

- **Speed:** 130 - 1200 rpm
- **Stirring volume:** up to 3 l
- **Stirring power:** up to 5 W
- **Protection class:** IP 32
- **Environmental temperature:** -10 to +40 °C
- **Dimensions:** 180 x 215 x 35 mm (W x D x H)
- **Power pack:** 230 V
- **Weight:** 1.4 kg

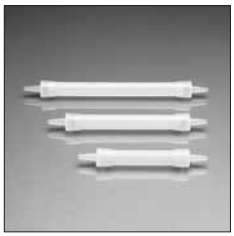
Item	Dimensions mm	Unit piece	Price EURO
17995	180 x 215 x 35	1	544.00

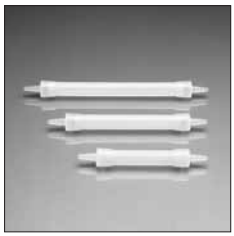
Drying Tubes, Gas Sampling Bulbs and Accessories

THOMAPLAST®-Drying Tube made of LDPE

Product specification

- For filling with silica gel or other hygroscopic materials. With 2 tubing adapters made of polypropylene (PP) for tubing of internal diameters of 7-10 mm.





Item	Outside Ø mm	Length mm	Unit piece	Price EURO
61368	21	100	12	48.00
61369	21	150	12	54.00
61370	21	200	12	60.00

THOMAPLAST®-Gas Sampling Bulb made of PP

Product specification

- Shut-off valve made of polypropylene with free-turnable cock made of PTFE.
- Connections for tubing of internal diameter of 6.4 to 9.5 mm.
  Tube neck Ø: 51 mm
  Tube length: 222 mm
  Shut-off valve: 64 mm
- In three types:
  Shut-off valve on both ends with bore Ø: 4 mm.
  Shut-off valve at one end and silicone rubber septum mounted in screw fitting on the other end. Septum can withstand several injections. 6 septa included.
  Shut-off valve with bore Ø: 4 mm at one end, three-way cock at the other end.

Item	Type	Connection type	Unit piece	Price EURO
60451	1	valves on both sides	1	156.00
60452	2	valve / in-screw fitting with septum	1	156.00
60453	3	valve / three-way cock	1	156.00

THOMAPLAST®-Safety Gas Wash Bottle made of PFA/PTFE

Product specification

- Gas wash bottle in shatterproof full plastic version, bottle body made of PFA, tubing connection and frit system made of PTFE.
- Chemical-resistant, free of leachable components and biocompatible.
- Temperature-loadable, sterilizable with all commonly used methods.
- The standard PTFE frit has a pore size of approx. 3 µm and is screwed on the riser tube with an M8x1 thread. It can be exchanged.

Item	Volume ml	Pore size µm	For tubing outside Ø mm	Height mm	Unit piece	Price EURO
47945	250	3	6	175	1	459.00
47946	500	3	6	200	1	613.00
47947	1,000	3	8	240	1	693.00

Laboratory Stoppers and Caps
Laboratory Stoppers

THOMAPLAST®-Stopper made of NR

Product specification

- Flexible, well tightening design
- Relatively resistant to most organic solvents, chemically neutral, non-toxic, resistant to ozone, physiologically harmless, floating, resistant to aging.

Technical specification

- **Material:** NR (natural rubber)
- **Shore hardness A:** 40° ±5°
- **Colour:** red
- **Temperature range:** -40 to +60 °C

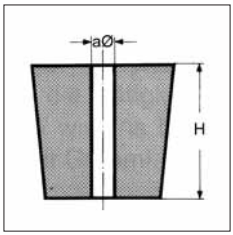
Item	Ø top mm	Ø bottom mm	Height mm	Colour	Unit piece	Price EURO
40353	6.5	3.5	15	grey	50	25.00
40354	9	5	20	grey	50	25.00
61080	9	6	18	red	50	35.00
40355	12	8	20	grey	50	30.00
61082	12	9	18	red	50	45.00
61083	13	10	18	red	50	50.00
40356	14.5	10.5	20	grey	50	35.00
61084	15	11	18	red	50	50.00
61085	16	12	20	red	50	50.00
40358	16.5	12.5	20	grey	50	45.00
61086	18	13	22	red	40	52.00
40360	18	14	20	grey	50	50.00
61087	20	14	24	red	30	42.00
40363	22	17	25	grey	50	85.00
61088	23	16	26	red	20	42.00
40366	24	18	30	grey	40	88.00
61089	26	19	28	red	20	46.00
40369	27	21	30	grey	30	90.00
40372	29	23	30	grey	25	80.00
40375	32	26	30	grey	20	80.00

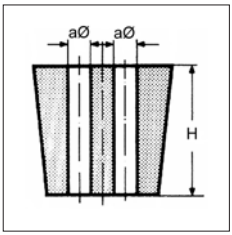
Item	Ø top mm	Ø bottom mm	Height mm	Colour	Unit piece	Price EURO
40378	35	29	30	grey	20	100.00
40381	38	31	35	grey	15	93.00
40384	44	36	40	grey	10	102.00
40385	49	41	40	grey	5	62.00
40386	55	47	40	grey	5	71.00
40387	59.5	50.5	45	grey	5	105.00
40388	65	56	45	grey	5	117.00
40389	70	60	50	grey	3	90.00
40390	75.5	64.5	55	grey	3	102.00
40391	83	71	60	grey	2	80.00
40392	92	79	65	grey	2	94.00
40393	100	87	65	grey	2	94.00
40394	107	94	65	grey	2	96.00

THOMAPLAST®-Stopper made of NR - with bore

Product specification
- Flexible, well tightening design
- Relatively resistant to most organic solvents, chemically neutral, non-toxic, resistant to ozone, physiologically harmless, floating, resistant to aging.

Technical specification
- **Material:** NR (natural rubber)
- **Shore hardness A:** 40° ±5°
- **Colour:** grey or red
- **Temperature range:** -40 to +60 °C





Item	Ø top mm	Ø bottom mm	H mm	Ø a mm	Bores	Unit piece	Price EURO
40357	14.5	10.5	20	3	1	50	50.00
40359	16.5	12.5	20	3	1	50	100.00
40361	18	14	20	3	1	50	65.00
40362	18	14	20	3	2	50	100.00
40364	22	17	25	4	1	40	80.00
40365	22	17	25	4	2	40	120.00
40367	24	18	30	4	1	40	96.00
40368	24	18	30	4	2	30	84.00
40370	27	21	30	5	1	30	90.00
40371	27	21	30	5	2	25	100.00
40373	29	23	30	5	1	25	85.00
40374	29	23	30	5	2	25	100.00
40376	32	26	30	6	1	20	100.00
40377	32	26	30	6	2	20	92.00
40379	35	29	30	6	1	15	90.00
40380	35	29	30	6	2	15	90.00

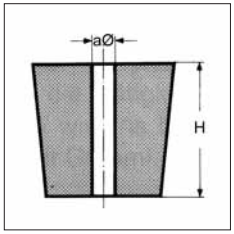
Item	Ø top mm	Ø bottom mm	H mm	Ø a mm	Bores	Unit piece	Price EURO
40382	38	31	35	7	1	15	105.00
40383	38	31	35	7	2	10	69.00

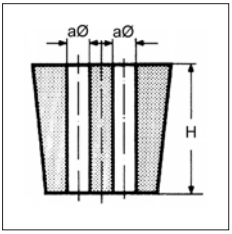
THOMAPLAST®-Stopper made of NBR

Application area
- Laboratory technology, machine engineering, automobile industry, petrochemistry, container technology, chemical technology

Product specification
- Highest resistance to mineral oils, fats and fuels
- Good resistance to weather
- Good resistance to aging
- Very high abrasion resistance
- Good mechanical stability
- Heat resistance better than SBR
- Low permeability to gas
- Special bores on request

Technical specification
- **Material:** NBR (butadiene-acrylonitrile rubber)
- **Colour:** black
- **Shore hardness A:** 45° ±5° (DIN 53505)
- **Temperature range:** -25 to +100 °C
- **Hot air resistance:** +120 °C
- **Tolerance:** according to DIN 7715 T2 M3





Item	Ø top mm	Ø bottom mm	H mm	Ø a mm	Bores	Unit piece	Price EURO
302467	6.5	3.5	15			25	26.00
302468	6.5	3.5	15			50	36.00
302471	9	5	20			25	28.00
302472	9	5	20			50	38.00
302473	12	8	20			25	36.00
302474	12	8	20			50	48.00
302475	14.5	10.5	20	3	1	25	42.00
302476	14.5	10.5	20	3	1	50	56.00
302477	16.5	12.5	20	3	1	25	50.00
302478	16.5	12.5	20	3	1	50	66.00
302479	18	14	20	3	1	25	62.00
302480	18	14	20	3	1	50	84.00
302481	18	14	20	3	2	25	62.00
302482	18	14	20	3	2	50	84.00
302483	22	17	25	4	1	25	94.00
302484	22	17	25	4	1	50	118.00
302485	22	17	25	4	2	25	94.00

Item	Ø top mm	Ø bottom mm	H mm	Ø a mm	Bores	Unit piece	Price EURO
302486	22	17	25	4	2	50	118.00
302487	24	18	30	4	1	25	122.00
302488	24	18	30	4	1	50	154.00
302489	24	18	30	4	2	25	122.00
302490	24	18	30	4	2	50	154.00
302491	27	21	30	5	1	25	160.00
302492	27	21	30	5	1	50	204.00
302493	27	21	30	5	2	25	160.00
302494	27	21	30	5	2	50	204.00
302495	29	23	30	5	1	25	198.00
302496	29	23	30	5	1	50	238.00
302497	29	23	30	5	2	25	198.00
302498	29	23	30	5	2	50	238.00
302499	32	26	30	6	1	15	156.00
302500	32	26	30	6	1	30	224.00
302501	32	26	30	6	2	15	156.00
302502	32	26	30	6	2	30	224.00
302503	35	29	30	6	1	15	156.00
302504	35	29	30	6	1	30	224.00
302505	35	29	30	6	2	15	156.00
302506	35	29	30	6	2	30	224.00
302507	38	31	35	7	1	10	172.00
302508	38	31	35	7	1	20	248.00
302509	38	31	35	7	2	10	172.00
302510	38	31	35	7	2	20	248.00
302513	44	36	40			5	134.00
302514	44	36	40			10	202.00
302515	49	41	40			3	102.00
302516	49	41	40			5	128.00
302517	55	47	40			3	132.00
302518	55	47	40			5	168.00
302519	59.5	50.5	45			3	180.00
302520	59.5	50.5	45			5	225.00
302521	65	56	45			3	230.00
302522	65	56	45			5	288.00
302523	70	60	50			3	282.00
302524	70	60	50			5	346.00
302525	75.5	64.5	55			3	320.00
302526	75.5	64.5	55			5	374.00
302527	83	71	60			1	130.00
302528	83	71	60			3	276.00
302529	92	79	65			1	188.00
302530	92	79	65			3	394.00
302531	100	87	65			1	270.00
302532	100	87	65			3	568.00
302533	107	94	65			1	382.00
302534	107	94	65			3	798.00

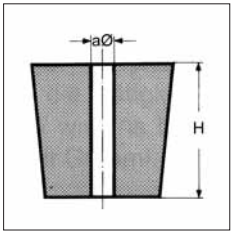
THOMAPLAST®-Stopper made of Silicone

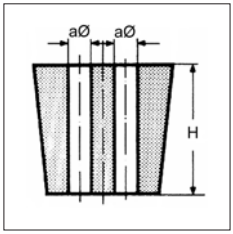
Product specification

- Relatively resistant to most organic solvents, chemically neutral, non-toxic, resistant to ozone, physiologically harmless, floating, resistant to aging.

Technical specification

- **Material:** silicone
- **Shore hardness A:** 50° ±5°
- **Colour:** transparent
- **Temperature range:** -60 to +180 °C, for a short time up to +260 °C.





Item	Ø top mm	Ø bottom mm	H mm	Ø a mm	Bores	Unit piece	Price EURO
40395	6.5	3.5	15			50	31.00
40396	9	5	20			50	40.00
40397	12	7	20			50	49.00
40398	14.5	10.5	20			50	76.00
40399	14.5	10.5	20	3	1	40	72.00
40400	16.5	12.5	20			40	79.00
40401	16.5	12.5	20	3	1	40	93.00
40402	18	14	20			40	97.00
40403	18	14	20	3	1	30	81.00
40404	18	14	20	3	2	30	108.00
40405	22	17	25			20	88.00
40406	22	17	25	4	1	20	108.00
40407	22	17	25	4	2	20	108.00
40408	24	18	30			15	81.00
40409	24	18	30	4	1	15	94.00
40410	24	18	30	4	2	15	94.00
40411	27	21	30			10	72.00
40412	27	21	30		1	10	75.00
40413	27	21	30		2	10	77.00
40414	29	23	30			10	77.00
40415	29	23	30	5	1	10	90.00
40416	29	23	30	5	2	10	90.00
40417	32	26	30			10	91.00
40418	32	26	30	6	1	10	91.00
40419	32	26	30	6	2	10	91.00
40420	35	29	30			5	63.00
40421	35	29	30	6	1	5	67.00
40422	35	29	30	6	2	5	67.00
40423	38	31	35			5	69.00
40424	38	31	35	7	1	5	72.00
40425	38	31	35	7	2	5	76.00
40426	44	36	40			3	59.00
40427	49	41	40			3	72.00
40428	55	47	40			2	68.00
40429	59.5	50.5	45			2	81.00
40430	65	56	45			2	99.00
40431	70	60	50			1	76.00
40432	75.5	64.5	55			1	81.00
40433	83	71	60			1	106.00
40434	92	79	65			1	130.00

Item	Ø top mm	Ø bottom mm	H mm	Ø a mm	Bores	Unit piece	Price EURO
40435	100	87	65			1	152.00
40436	107	94	65			1	171.00

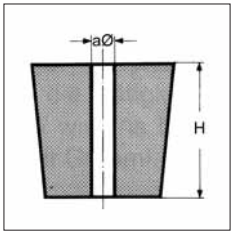
THOMAPLAST®-High-Pharm Stopper made of Silicone for the Food Processing Technology and Pharmaceutical Engineering

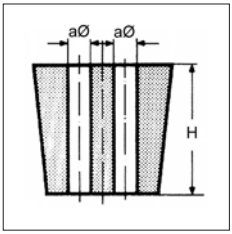
Application area

- Biotechnology, pharmaceutical engineering, food processing technology, wine business, beverage industry, dairy industry, container technology, laboratory technology

Technical specification

- **Material:** silicone (silicone rubber)
- **Colour:** translucent
- **Shore hardness A:** 50° ±5°
- **Temperature range:** -60 to +200 °C, for a short period +230 °C
- **Sterilization:** autoclavable (+136 °C)
- **Tolerance:** according to DIN 7715 T2 M3
- **Regulations:** FDA §177.2600 and BfR XV silicone





Item	Ø top mm	Ø bottom mm	H mm	Ø a mm	Bores	Unit piece	Price EURO
302535	6	3	15			25	30.00
302536	6	3	15			50	40.00
302537	8	4	20			25	30.00
302538	8	4	20			50	40.00
302539	9	5	20			25	32.00
302540	9	5	20			50	42.00
302541	12	8	20			25	40.00
302542	12	8	20			50	52.00
302543	14.5	10.5	20	3	1	25	46.00
302544	14.5	10.5	20	3	1	50	60.00
302545	16.5	12.5	20	3	1	25	54.00
302546	16.5	12.5	20	3	1	50	74.00
302547	18	14	20	3	1	25	68.00
302548	18	14	20	3	1	50	92.00
302549	18	14	20	3	2	25	68.00
302550	18	14	20	3	2	50	92.00
302551	22	17	25	4	1	25	100.00
302552	22	17	25	4	1	50	144.00
302553	22	17	25	4	2	25	100.00
302554	22	17	25	4	2	50	144.00
302555	24	18	30	4	1	25	132.00
302556	24	18	30	4	1	50	192.00

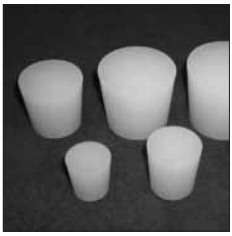
Item	Ø top mm	Ø bottom mm	H mm	Ø a mm	Bores	Unit piece	Price EURO
302557	24	18	30	4	2	25	132.00
302558	24	18	30	4	2	50	192.00
302559	27	21	30	5	1	25	170.00
302560	27	21	30	5	1	50	246.00
302561	27	21	30	5	2	25	170.00
302562	27	21	30	5	2	50	246.00
302563	29	23	30	5	1	25	138.00
302564	29	23	30	5	1	50	202.00
302565	29	23	30	5	2	25	138.00
302566	29	23	30	5	2	50	202.00
302567	32	26	30	6	1	25	164.00
302568	32	26	30	6	1	50	278.00
302569	32	26	30	6	2	25	164.00
302570	32	26	30	6	2	50	278.00
302571	35	29	30	6	1	25	148.00
302572	35	29	30	6	1	50	220.00
302573	35	29	30	6	2	25	148.00
302574	35	29	30	6	2	50	220.00
302575	38	31	35	7	1	25	196.00
302576	38	31	35	7	1	50	294.00
302577	38	31	35	7	2	25	196.00
302578	38	31	35	7	2	50	294.00
302579	41	34	35			10	118.00
302580	41	34	35			20	170.00
302581	44	36	40			10	132.00
302582	44	36	40			20	192.00
302583	49	41	40			5	80.00
302584	49	41	40			10	116.00
302585	55	47	40			5	106.00
302586	55	47	40			10	160.00
302587	59.5	50.5	45			5	142.00
302588	59.5	50.5	45			10	205.00
302589	65	56	45			5	184.00
302590	65	56	45			10	264.00
302591	70	60	50			3	155.00
302592	70	60	50			5	180.00
302593	75.5	64.5	55			3	162.00
302594	75.5	64.5	55			5	193.00
302595	83	71	60			1	56.00
302596	83	71	60			3	134.00
302597	92	79	65			1	77.00
302598	92	79	65			3	184.00
302599	100	87	65			1	94.00
302600	100	87	65			3	248.00
302601	107	94	65			1	129.00
302602	107	94	65			3	328.00
302603	130	100	85			1	194.00
302604	130	100	85			3	543.00
302605	170	120	130			1	347.00
302606	170	120	130			3	925.00

THOMAPLAST®-High-Pure-Stopper made of Silicone - platinum cross-linked

Application area
- Pharmaceutical technology, biotechnology, food industry, medical sector, beverage industry

Product specification
- Very good biological compatibility
- Non-toxic, free from pyrogenes
- Resistant to high temperature
- Suitable for food contact applications
- Absolutely odourless and tasteless

Technical specification
- **Material:** silicone (silicone rubber), platinum-catalyzed and free of peroxides
- **Colour:** translucent
- **Shore hardness A:** 45 °
- **Temperature range:** -60 to + 200 °C
- **Sterilization:** autoclavable (+136 °C)
- **Tolerance:** according to DIN 7715 T2 M3
- **Regulations:** conforming to FDA acc. to §177.2600 (USA), booklet No. 1227, 1980 „Décrets et circulaires du Ministère de l´Agriculture“ (France) and BS 6920-WRc Water Byelaws Scheme-(UK)
- **Migration:** according to the standards established by the directive CEE 20/128, 93/128 and 93/9



Item	Ø top mm	Ø bottom mm	Height mm	Unit piece	Price EURO
340909	29	24	30	5	72.00
340910	29	24	30	10	122.00
340911	31	25	34	5	80.00
340912	31	25	34	10	134.00
340913	33	28	34	5	88.00
340914	33	28	34	10	144.00
340915	35	30	38	5	96.00
340916	35	30	38	10	162.00
340917	38	32	38	5	106.00
340918	38	32	38	10	178.00
340919	42	35	42	5	110.00
340920	42	35	42	10	182.00
340921	45	37	45	5	124.00
340922	45	37	45	10	202.00
340923	49	42	49	5	140.00
340924	49	42	49	10	224.00
340925	55	45	48	5	164.00
340926	55	45	48	10	258.00
340927	60	51	51	5	208.00
340928	60	51	51	10	326.00
340929	66	56	55	5	256.00
340930	66	56	55	10	384.00

THOMAPLAST®-Silicone Sponge Stoppers

Product specification
- A high-performance silicone sponge stopper with outstanding porosity, as a replacement for the conventional cotton stoppers.
- The stopper can be sterilized 300 times at +180 °C for 10 hours due to its outstanding heat resistance and allows half the evaporation associated with regular cotton stoppers.
- Silicone sponge stoppers are not hygroscopic, thus preventing a contamination by the growth of microorganisms on or in the stopper.

Item	Ø top mm	Ø bottom mm	Unit piece	Price EURO
954791	23	21	1	16.00
954801	30	23	1	20.00

THOMAPLAST®-High-Chem Stopper made of FPM

Application area
- Laboratory technology, chemical technology, sealing technique, container technology, automobile industry, engineering operations and maintenance

Product specification
- Highest temperature resistance
- Outstanding chemical resistance, particularly to aliphatic, aromatic and halogen-substituted hydrocarbons, fuels, oils, fats, hydraulic fluids, alkohols and acids
- Very good heat resistance
- Resistant to effects of ozone, aging, and weather
- Flame-resistant
- Highest mechanical strength

Technical specification
- **Material:** FPM (fluorinated rubber)
- **Colour:** green
- **Shore hardness A:** 75°
- **Temperature range:** -55 to +200 °C, for a short time up to +315 °C
- **Sterilization:** autoclavable (+136 °C)
- **Tolerance:** according to DIN 7715 T2 M3

Item	Ø top mm	Ø bottom mm	Height mm	Unit piece	Price EURO
340873	7	3	19	5	26.00
340874	7	3	19	15	66.00
340875	10	6	17.5	5	52.00
340876	10	6	17.5	15	128.00
340877	12	9	19	5	66.00
340878	12	9	19	15	160.00
340879	14	10	19	5	70.00
340880	14	10	19	15	174.00
340881	15	12	19	5	88.00

Item	Ø top mm	Ø bottom mm	Height mm	Unit piece	Price EURO
340882	15	12	19	15	216.00
340883	16	13	21	5	94.00
340884	16	13	21	15	228.00
340885	17	14	21	5	122.00
340886	17	14	21	15	282.00
340887	19	16	23	5	156.00
340888	19	16	23	15	242.00
340889	21	18	25	5	174.00
340890	21	18	25	15	272.00
340891	23	19	28	2	110.00
340892	23	19	28	5	204.00
340893	26	22	30	2	154.00
340894	26	22	30	5	298.00
340895	29	24	32	2	176.00
340896	29	24	32	5	344.00
340897	32	26	34	1	124.00
340898	32	26	34	2	198.00
340899	34	28	36	1	146.00
340900	34	28	36	2	228.00
340901	37	31	41	1	168.00
340902	37	31	41	2	264.00
340903	40	34	43	1	182.00
340904	40	34	43	2	280.00
340905	43	36	45	1	240.00
340906	43	36	45	2	372.00
340907	49	40	49	1	286.00
340908	49	40	49	2	438.00

Laboratory Caps

THOMAPLAST®-Protective Cap made of Silicone

Product specification

- Translucent protective caps made of silicone.
- The caps are optimally suitable for protection of pipe and tubing ends or for protecting protruding, cylindrical-shaped parts during transport and all procedures that require the protection of openings (protection against knocks, splashes and dye).
- The size given corresponds to the external diameter of the vessel to be capped in mm.

Technical specification

- **Material:** silicone (silicone rubber)
- **Crosslinking:** peroxide
- **Colour:** translucent
- **Temperature range:** -50 to +200 °C, for a short time +250 °C
- **Density:** 1.15 ±0.03 g/cm^3
- **Shore hardness A:** 62° ±5°
- **Elongation at break:** 270 %
- **Tensile strength:** 7.5 Mpa
- **Regulations:** FDA §177.2600 and BfR XV silicone

Item	Inside Ø mm	Unit piece	Price EURO
40852	12	5	23.00
40854	14	5	30.00
40856	16	5	30.00
40858	18	5	31.00
40860	20	5	40.00
40861	22	5	45.00
40863	25	5	46.00
40866	30	5	59.00
40868	35	3	48.00
40872	42	2	60.00
40873	45	2	70.00
40875	50	2	92.00

THOMAPLAST®-Test Tube Cap made of Aluminium - with handle

Application area

- For sterile but not hermetic closing of test tubes, particularly of culture tubes; may replace the plug of cotton wool in the bacteriological laboratory.

Technical specification

- **Material:**
  Cap: aluminum, coloured anodized, anodically oxidized, absolutely rust-free
  Special clamping spring: chromium-nickel-steel

Item	Inside Ø mm	Wall thickness mm	Colour	Unit piece	Price EURO
73549	12	0.5	silver	20	40.00
73573	14	0.5	silver	20	42.00
73597	15	0.5	silver	20	44.00
73600	15	0.5	blue	20	44.00
73603	15	0.5	red	20	44.00
73606	15	0.5	yellow	20	44.00

Item	Inside Ø mm	Wall thickness mm	Colour	Unit piece	Price EURO
73609	15	0.5	green	20	44.00
73621	17	0.5	silver	20	46.00
73624	17	0.5	blue	20	46.00
73627	17	0.5	red	20	46.00
73630	17	0.5	yellow	20	46.00
73633	17	0.5	green	20	46.00
73645	19	0.5	silver	20	46.00
73648	19	0.5	blue	20	46.00
73651	19	0.5	red	20	46.00
73654	19	0.5	yellow	20	46.00
73657	19	0.5	green	20	46.00
73660	19	0.5	brown	20	46.00
73663	19	0.5	violet	20	46.00
73666	19	0.5	black	20	46.00

THOMAPLAST®-Test Tube Cap made of Aluminium - with claw

Application area

- For sterile but not hermetic closing of test tubes, particularly of culture tubes; may replace the plug of cotton wool in the bacteriological laboratory.

Technical specification

- **Material:**
  Cap: aluminum, coloured anodized, anodically oxidized, absolutely rust-free
  Retaining clips: chromium-nickel-steel

Item	Inside Ø mm	Wall thickness mm	Colour	Unit piece	Price EURO
73026	12	0.5	red	20	22.00
73068	15	0.5	silver	20	24.00
73074	15	0.5	red	20	24.00
73080	15	0.5	green	20	24.00
73122	17	0.5	red	20	24.00
73191	24	1	blue	20	36.00
73197	24	1	yellow	20	36.00
73215	28	1	blue	20	42.00

Laboratory Semifinished Products and Aids

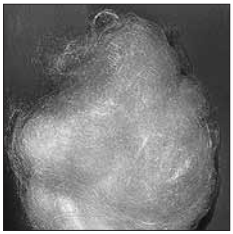
THOMAPLAST®-Glass Fibre Wool GW1A and GW2A

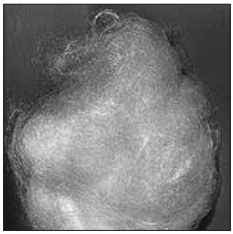
Product specification

- The Microlith filter wool is available in two qualities.
- Both types withstand temperatures of +450 °C and +500 °C resp. for longer time periods. Type GW2A is steam-sterilizable without problems.
- Both types are resistant to acids, alkalis, organic solvents as well as aerosols.
- Variations of air humidity have an imperceptible influence on the weight as glass fibre wool is not hygroscopic and does not stretch or swell.
- Insensitive to microorganisms. Usable in medicine, pharmacy and bacteriology. Also suited for use in sterile filter applications when the rare fibre preparations are removed before.
- High retention capacity.

Technical specification

- **Hydrolysis class (DIN 12111)**: 3 (GW1A); 1 (GW2A)
- **Acid class (DIN 12116):** 2
- **Alkali class (DIN 52322):** 2
- **Average fibre diameter:** 10 - 11
- **Density:** 2.52 g/cm^3 (GW1A); 2.39 g/cm^3 (GW2A)
- **Max. fibre preparation:** 0.1 % (based on synthetic fats)
- **Transformation temperature:** +510 °C (GW1A); +557 °C (GW2A)
- **Softening point:** +720 °C (GW1A); +783 °C (GW2A)





Item	Type	Unit g	Price EURO
71314	GW 1 A	10	16.00
71315	GW 1 A	30	23.00
71316	GW 1 A	50	31.00
71317	GW 2 A	10	20.00
71318	GW 2 A	30	35.00
71319	GW 2 A	50	44.00

THOMAPLAST®-Boiling Stones made of PTFE

Product specification

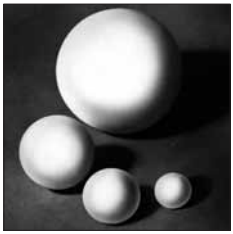
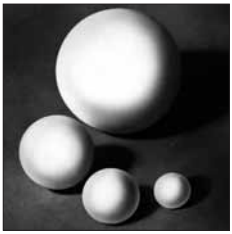
- Highly resistant product withstanding hot acids and alkalis, hydrocarbons, ketones, esters and alcohols in every concentration.
- Prevent splashes and production of bubbles during boiling. Packed in resealable bag.
- Highly active and durable
- Temperature resistance: -200 to +250 °C

Item	Particle size mm	Unit g	Price EURO
60261	4	450	202.00

THOMAPLAST®-Balls made of PTFE

Product specification

- For distillation columns
- High resistance to fluids and vapours
- Usable up to +288 °C

Item	Outside Ø mm	Unit piece	Price EURO
60287	3	50	55.00
60288	6	50	100.00
60289	9	50	175.00
60290	15	50	198.00

THOMAPLAST®-Powder made of PTFE

Product specification

- An odourless, dry powder made of PTFE
- It sticks electrostatically and can be polished to a permanently dry lubricating film.
- Suitable for metal, wood, plastics, leather, ceramic etc.

Item	Unit g	Price EURO
60386	100	100.00

THOMAPLAST®-Blowing Bulb made of PVC

Product specification

- Blowing bulb made of red-brown polyvinylchlorid (plasticized PVC)

Item	Size	Volume ml	Unit piece	Price EURO
40276	3	65	3	48.00
40277	3	65	5	57.00
40278	5	102	3	54.00
40279	5	102	5	65.00

THOMAPLAST®-Double Blowing Bulb made of PVC/NR with Net

Product specification

- Double blowing bulb with two working bulbs, made of two different materials: polyvinylchloride (plasticized PVC) and black natural rubber (NR).

Item	Size	Volume ml	Unit piece	Price EURO
40280	5	102	1	24.00
40281	5	102	3	55.00
40282	5	102	5	80.00

THOMAPLAST®-Standard Marker

Product specification

- For direct marking of glass, porcelain, plastics, stainless steel, non-ferrous metals.
- Marks dry, humid as well as cold surfaces.
- After marking immediately wipe-resistant and waterproof, but can be rubbed off mechanically.

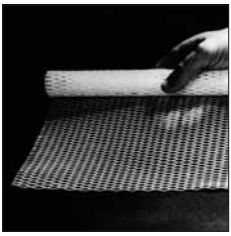
Item	Colour	Design	Unit piece	Price EURO
40149	black	extra fine	3	21.00
40150	red	extra fine	3	21.00
40153	black	fine	3	21.00
40154	red	fine	3	21.00
40155	blue	fine	3	21.00
40156	green	fine	3	21.00
40158	red	wide	3	21.00
40159	blue	wide	3	21.00
40160	green	wide	3	21.00

Protection

THOMAPLAST®-Lab Mat made of PTFE

Product specification

- Made of pure PTFE with diamond-shaped mesh pattern; thickness approx. 1.6 mm, holes approx. 6 mm. Usable for elastic lining of shelves, fume hoods, sinks, cooling apparatuses, and as mesh for parts being submerged in etching chemicals and solutions.
- The material does not absorb chemicals and odors, does not embrittle, is weakly reactive and resistant to chemicals, and easily cut to every desired size.



Item	Width mm	Length m	Unit piece	Price EURO
60278	300	3	1	502.00

THOMAPLAST®-ANTISTA EGB/ESG Bench Liner

Product specification

- Abrasion-resistant bench liners for electronic workplaces made of soldering tin-resistant, volume conductive 2-layer composite synthetic rubber, complete with cable lug/banana plug adapter and push-button connection for earth wires. Porefree, dust- and dirt-repellent surfaces, non-deforming; in three different optically convenient and dazzling-poor dyeings.

Technical specification

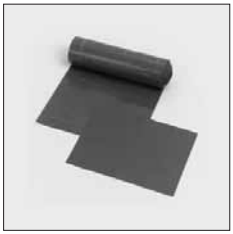
- **Dimensions:** 610 x 900 mm
- **Material thickness:** 2 mm
- **Leakage resistance:** 10^5 - 10^7 Ohm (DIN 51953)
- **Volume resistivity:** 10^5 - 10^7 Ohm (NFPA 99 56A)
- **Surface resistance:** 10^5 - 2 x 10^7 Ohm (NFPA 99 56A)
- **Decay time:** from 5000 V to 500 V 0.009 sec.; from 5000 V to 50 V 0.034 sec.

Item	Colour	Unit piece	Price EURO
45726	beige	1	123.00
45727	platinium grey	1	123.00
45728	verdigris	1	123.00

THOMAPLAST®-Dycem®-Antislip Sheeting

Product specification

- A new material made on PVC base with amazing features. THOMAPLAST®-antislip sheeting is adhesive without sticking. A non-slip, vibration damping pad for vibrating and rotating devices, as bench liners, as working support for handling with smallest precision mechanical parts.



Item	Width mm	Length m	Colour	Unit piece	Price EURO
952311	200	2	blue	1	72.00
952321	200	2	red	1	72.00
952331	200	2	yellow	1	72.00
952341	200	2	green	1	72.00
952351	200	2	white	1	72.00
952361	400	2	blue	1	121.00
952371	400	2	red	1	121.00
952401	400	2	white	1	121.00
953211	200	9	blue	1	264.00
953221	200	9	red	1	264.00
953241	200	9	green	1	264.00
953261	400	9	blue	1	371.00
952271	400	9	red	1	371.00

THOMAPLAST®-Flask Lead Weight Ring

Application area

- Weighting of freestanding glassware such as Erlenmeyer flasks, boiling bottles etc. in water baths to increase stability and to prevent chipping.

Product specification

- Lead rings with extra strong, chemical-resistant and bright-red dyed polyvinyl coating in different sizes for flasks up to 4 litres capacity.

Item	Rec. flask size l	Ø ring mm	Weight g	Unit piece	Price EURO
83266	0.25 - 0.5	48	227	1	39.00
83267	0.25 - 1	56	454	1	39.00
83268	0.5 - 2	61	681	1	44.00
83269	1 - 4	74	908	1	49.00

Laboratory Equipment and Utensils

THOMAPLAST®-Cuvette Washer made of PP

Product specification

- Rinses and dries glass or quartz cuvettes without danger of damage. Holding the cuvette with the open end downwards, it is pressed against a soft rubber pad thereby closing the vacuum system. When poured into the funnel the washing liquid sprays as sharp jet into the cuvette and runs into the suction bottle. Using acetone for the last washing run and blowing air for some seconds results in perfectly clean and dry cuvettes. Minimum cuvette I.D must be 9 mm or larger to form a seal over the spray nozzle.
- Includes 500 ml polypropylene vacuum flask and vinyl stopper with tubing.
- Accessories: Fitting NS stopper (standard ground joint stopper) made of PP item 60670.

Item	Ø funnel mm	Volume suction bottle mm	Unit piece	Price EURO
96790	89	500	1	228.00

THOMAPLAST®-Service Case for Engineers

Product specification

- Black grained leather case with all-round zip fastener, inside lined with black plastic plates. The set contains 22 important RCT®-tools for service work
- Content service-case:
  Ying glass: 30 mm Ø; 5 x magnification
  Side cutters: 120 mm, for hard wire up to 0.8 mm, for soft wire up to 1.5 mm, chrome-plated
  Snipe nose pliers: 140 mm, angular, with long jaws, slim model, with compression spring, chrome-plated
  Water pump pliers: 130 mm, chrome-plated
  Screwdriver DIN 5265: 100 x 4 mm, blade made from chrome vanadium, chrome-plated, with black tip
  Cross-recess screwdriver Pozidriv: blade made from chrome vanadium, with black tip, size 0 (length 60 mm), size 2 (lenght 100 mm)
  Screwdriver for grub screws: with plastic handle, blade made from chrome vanadium, nickel-plated, 80 x 2.8 mm
  Assembly screwdriver: nickel-plated blade, 45 x 6 mm
  with special square pattern BERNSTEIN handle
  Watchmaker's screwdriver: nickel-plated, with 4 interchangeable blades 1.5, 2.0, 2.5 and 3.0 mm
  Steel tweezers: nickel-plated, with bent tips (150 mm), straight (145 mm)
  Contact file: 150 mm
  Special sheet-metal scissors: serrated, extremely slim, 110 mm, nickel-plated
  Wrench key: special steel, nickel-plated, WAF 2.0, WAF 2.5, WAF 3.0, WAF 3.5
  Torx-wrench key: with bore hole, chrome vanadium, burnished, T 10, T 15, T 20
  Gas-soldering-iron Portasol: 10 - 60 W, max. temperature up to 450° C

Item	External dimensions mm	Weight[1] kg	Unit piece	Price EURO
71851	245 x 130 x 60	1.1	1	360.00

[1] with tools

THOMAPLAST®-Service Set

Product specification

- Practical service case for the electronics engineer. Case with zip fastener made from black imitation leather. The case contains 18 clearly arranged special tools. In addition to writing materials, the writing case side has room in its 3 compartments for a writing block, leaflets, technical documents etc. There is also a transparent window for visiting cards or calendars and a pocket for small parts. Weight with tools approx. 0.95 kg.
  Outside dimensions (when closed) 320 x 230 x 30 mm.

Item	Unit piece	Price EURO
71849	1	390.00

THOMAPLAST®-Clamping Vice

Product specification
- RCT®-clamping vice with interchangeable screw-on work mounts. Instead of the clamping device it is possible to place a circuit board holder (clamping capacity 25 - 270 mm), a universal screw-on plate with three fixing slots for bolts etc., and an angular adapter in order to obtain a larger turning circle.

Technical specification
- **Screw-on mounting vice:**
  Jaws: plastic
  Clamping pressure: 150 kp
  Clamping capacity: 70 mm
  Clamping depth: 38 mm

Item	Unit piece	Price EURO
71847	1	345.00

THOMAPLAST®-Flexi-Instrument Holder

Application area
- Positioning of small laboratory devices such as electrodes, measuring magnifier and measuring telescopes, illumination of scales etc.
- Support stand in chemical and physical laboratories.

Product specification
- Ball joint arm made of disruptively strong acetal resin segments („swanneck“) of approx. 46 cm length, bendable in any position, to elongate or shorten by adding or removing of segments. With stainless steel bolt (diameter 12.7 mm, length 19 mm) at the movable end for fastening of device clamps etc. With suction stand or heavy support stand for setting up.

Item	Design	Unit piece	Price EURO
83263	with support stand	1	318.00
83264	without foot	1	131.00

THOMAPLAST®-Mini Sieve Set

Application area
- Particle size analysis.
- Particle size fractionating of small and smallest amounts of substances.

Product specification
- Stackable precision sieves for arranging of sieve combinations. True to size interchangeable sieve segments with toollessly exchangeable stable strainers of different mesh widths according to U.S. ASTM-standards, tightly closing cover and bottom receiver.

Technical specification
- **Material:** Sieve segments, cover, receiver and screw fitting for strainers: polypropylene; Strainers: phosphor bronze
- **Content of supply standard set:** 4 pieces of sieve segments with screw fittings for strainers, 8 pieces of different strainers in mesh-dimensions, one cover and one bottom receiver
- **Dimension:**
  Sieve segments: internal diameter 51 mm, external diameter 65 mm
  Stainers: mesh widths 24; 35; 45; 60; 80; 120; 170, and 230 mesh
- **Stacking height:** 152 mm (standard set with 4 sieves, cover and bottom receiver)

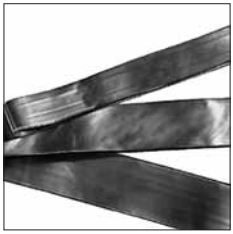
Item	Unit set	Price EURO
83261	1	177.00

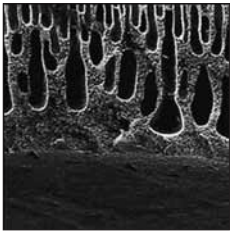
Separation Technology - Filtration
Dialysing Tubing, Dialysing Clamps, Dialysing Cylinder

THOMAPOR®-Dialysing Tubing made of Regenerated Cellulose - Standard

Application area
- Gentle desalination, purification and concentration of sensitive biological materials, such as sera, protein solutions, plant extracts
- Desalination of metal colloids.
- Purification of protein and nucleic acid fragments.
- Exchange of electrolytes in bioactive media.
- Growing of bacterial cultures.
- Depyrogenization of sensitive bioeffective systems.

Product specification
- High-tech dialysing tubing made of regenerated cellulose for overall biological research, seamlessly manufactured, in rolls, made of clear highly pure and molecular-porous membrane material, absolutely free of traces of heavy metal and sulfur compounds, extremely low protein absorption especially in a weakly acetous environment, narrow cut-off ranges. Stabilized for storage with glycerol. For low and high-molecular systems with correspondingly defined cut-offs.
- Because of its glycerol content required for storage stability, THOMAPOR®-dialysing tubing should be washed with water or diluted acetic acid before use. For storage of unused dialysing tubing air-tight containers are recommended which should be stored in the refrigerator. The tubing can be used in the pH range of 2 to 12 and at temperatures of +4 to +121 °C. The mentioned cut-offs are recommended values. In case of uncertainty the suitability of a given dialysing tubing has to be determined in preliminary tests, as the effective pore sizes of the cellulose membrane material depend on several external physicochemical factors, e.g. the buffer composition.





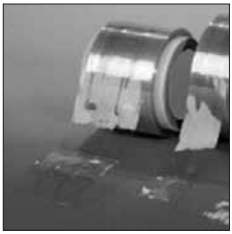
Item	Cut off kDalton	Flat width mm	Filling Ø mm	Filling volume ml/cm	Design	Unit m	Price EURO
50300	1	12	8	0.3	pre-wetted	10	660.00
50301	1	18	11.5	1.1	pre-wetted	10	660.00
50302	1	38	24	4.2	pre-wetted	10	660.00
50303	1	45	29	6.4	pre-wetted	10	660.00
50304	2	12	8	0.3	pre-wetted	10	660.00
50305	2	18	11.5	1.1	pre-wetted	10	660.00
50306	2	38	24	4.6	pre-wetted	10	660.00
50307	2	45	29	6.4	pre-wetted	10	660.00
50308	3.5	18	11.5	1.1	dry	15	660.00
50309	3.5	45	29	6.4	dry	15	660.00
50310	3.5	54	34	9.3	dry	15	660.00
50312	6 - 8	10	6.4	0.32	dry	15	660.00
50313	6 - 8	23	14.6	1.7	dry	30	660.00
50314	6 - 8	32	20.4	3.3	dry	30	660.00
50315	6 - 8	40	25.5	5.1	dry	30	690.00
50316	6 - 8	50	32	7.9	dry	30	720.00
50317	6 - 8	100	64	32	dry	15	660.00
50318	6 - 8	120	76	46	dry	15	780.00
50319	8	24	15	1.8	pre-wetted	10	660.00
50320	8	32	20.4	3.3	pre-wetted	10	660.00
50321	8	40	25.5	5.1	pre-wetted	10	660.00
50322	8	50	32	7.9	pre-wetted	10	660.00
50323	10	12	7.5	0.45	pre-wetted	10	660.00
50324	10	24	15	1.8	pre-wetted	10	660.00
50325	10	32	20.4	3.3	pre-wetted	10	660.00
50326	10	45	29	6.4	pre-wetted	10	660.00
50327	12 - 14	4	3	0.08	dry	2	228.00
50328	12 - 14	8	5	0.22	dry	2	228.00
50329	12 - 14	10	6.4	0.32	dry	15	660.00
45077	12 - 14	10	6.4	0.32	dry	30	708.00
50331	12 - 14	25	16	2	dry	15	440.00
45079	12 - 14	25	16	2	dry	30	708.00
50332	12 - 14	32	20.4	3.3	dry	15	560.00
50333	12 - 14	45	29	6.4	dry	15	440.00
45081	12 - 14	45	29	6.4	dry	30	708.00
50334	12 - 14	75	48	18	dry	15	440.00
50335	12 - 14	105	67	34	dry	15	1,440.00
50336	12 - 14	120	76	46	dry	15	1,440.00
50337	15	12	7.5	0.45	pre-wetted	10	675.00
50338	15	24	15	1.8	pre-wetted	10	675.00
50339	15	32	20.4	3.3	pre-wetted	10	675.00
50340	15	45	29	6.4	pre-wetted	10	675.00
50341	25	12	7.5	0.45	pre-wetted	10	675.00
50342	25	28	18	2.5	pre-wetted	10	675.00
50343	25	34	22	3.7	pre-wetted	10	675.00
50344	50	12	7.5	0.45	pre-wetted	10	675.00
50345	50	28	18	2.5	pre-wetted	10	675.00
50346	50	34	22	3.7	pre-wetted	10	675.00

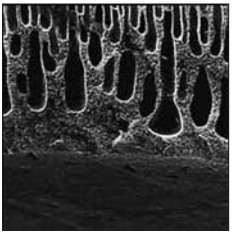
THOMAPOR®-Dialysing Tubing made of Regenerated Cellulose – Praktik

Application area
- Gentle desalination, purification and concentration of sensitive biological materials, such as sera, plant extracts, cell hydrolysates
- Dialysis of blood, protein solutions, and of other biocolloid systems.
- Desalination of metal colloids.
- Growing of bacterial cultures.
- Demonstration material for teaching and training.

Product specification
- Material: Seamlessly manufactured dialysing tubing made of regenerated cellulose.
- Features: Sterilization -wet or dry- up to +120 °C allowed. Do not dry up the dialysing tubing without having treated it first with a diluted glycerol solution.
- Average pore diameter: 15-20 Å
- MW cut-off: 10,000 to 20,000 dalton

- Biochemical analysis: Separation of low molecular and high molecular proteins and nucleic acid fragments.
- Concentration: Solutions of biomolecules of a molecular weight exceeding 12,000 - 15,000 can be concentrated quickly and gently by suspending them in a 20 % solution of polyethylene glycol M 2000.
- Salt exchange: Solutions of high-molecular salts cannot only be made free of the salt, but a new desired ionic environment can be established by exchange.





Item	Flat width mm	Filling Ø mm	Filling volume ml/cm	Unit m	Price EURO
84577	10	6	0.31	3	66.00
84578	23	15	1.77	3	66.00
84579	25	16	2.01	3	66.00
84580	32	20	3.14	3	66.00
84581	40	25	4.91	3	66.00
84582	50	32	8.04	3	66.00
84583	69	44	15.2	3	66.00
84584	80	51	20.42	3	66.00
84585	104	66	34.19	3	66.00
84586	117	75	44.16	2	81.00
84588	144	92	66.44	2	81.00
84589	159	101	80.08	2	81.00
50352	69	44	15.2	15.2	154.00
50353	80	51	20.42	15.2	154.00
50354	104	66	34.19	15.2	187.00
50355	117	75	44.16	15.2	226.00
50357	144	92	66.44	15.2	262.00
50358	159	101	80.08	15.2	280.00
503591	10	6	0.28	30.5	263.00
50359	23	15	1.77	30.5	270.00
50360	25	16	2.01	30.5	286.00
50361	32	20	3.14	30.5	306.00
50362	40	25	4.91	30.5	306.00
50363	69	44	15.2	152.5	958.00
50364	80	51	20.42	152.5	1,164.00
50365	104	66	34.19	152.5	1,304.00
50366	117	75	49.08	152.5	1,499.00
50370	23	15	1.77	305	1,702.00
50372	32	20	3.14	305	1,874.00
50373	40	25	4.91	305	1,442.00
50374	50	32	8.04	305	2,633.00

THOMAPOR®-High-Pure Dialysing Tubing made of Regenerated Cellulose

Application area

- Gentle desalination, purification and concentration of heavy metal-sensitive biological and physiological material under sterile conditions.
- Growing of bacterial cultures.
- Depyrogenization and sterilization of sensitive, bioeffective systems.

Product specification

- Highly purified, EDTA-washed dialysing tubing, free of traces of heavy metals and sulfur components, radiation-sterilized. For low- and high-molecular systems with narrowly defined cut-offs. Stabilized for storage with 0.05 % sodium azide.
- The mentioned cut-offs are recommended values. In case of uncertainty the suitability of a given THOMAPOR®-dialysing tubing CS SHR high-pure quality has to be determined in preliminary tests, as the effective pore sizes of the membrane material depend on several external physico-chemical factors, e.g. the buffer composition.
- Because of its sodium benzoate content required for storage stability, THOMAPOR®-Dialysing Tubing CS-SHR High-Pure should be washed with water before use. Subsequent conditioning in dialysing buffer is advisable.

Technical specification

- **Material:** regenerated cellulose
- **Length:** 5 m

Item	Cut off kDalton	Flat width mm	Filling Ø mm	Filling volume ml/cm	Length m	Price EURO
45087	1	18	11.5	1.1	5	530.00
45088	1	38	24	4.6	5	530.00
45089	1	45	29	6.4	5	530.00
45091	2	18	11.5	1.1	5	530.00
45092	2	38	24	4.6	5	530.00
45093	2	45	29	6.4	5	530.00
45094	3.5	18	11.5	1.1	5	530.00
45095	3.5	45	24	6.4	5	530.00
45096	3.5	54	29	9.3	5	530.00
45097	8	12	7.5	0.45	5	530.00
45098	8	24	15	1.8	5	530.00
45099	8	32	20.4	3.3	5	530.00
45100	8	40	25.5	5.1	5	530.00
45101	8	50	32	7.9	5	530.00
45102	10	12	7.5	0.45	5	530.00
45103	10	24	15	1.8	5	530.00
45104	10	32	20.4	3.3	5	530.00
45105	10	45	29	6.4	5	530.00
45106	15	12	7.5	0.45	5	530.00
45107	15	24	15	1.8	5	530.00
45108	15	32	20.4	3.3	5	530.00
45109	15	45	29	6.4	5	530.00
45110	25	12	7.5	0.45	5	530.00
45111	25	28	18	2.5	5	530.00
45112	25	34	22	3.7	5	530.00
45113	50	12	7.5	0.45	5	530.00
45114	50	28	18	2.5	5	530.00
45115	50	34	22	3.7	5	530.00

THOMAPOR®-Dialysing Tubing made of Cellulose Hydrate – Standard

Application area

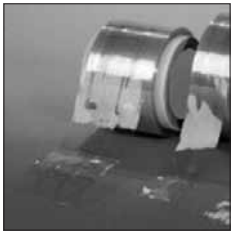
- Gentle desalination, purification and concentration of sensitive biological materials, such as sera, plant extracts, cell hydrolysates
- Dialysis of blood, protein solutions, and of other biocolloid systems.
- Desalination of metal colloids.
- Growing of bacterial cultures.

Product specification

- Seamlessly manufactured dialysing tubing made of purest cellulose hydrate membrane material. Mean pore size 25 Angstrom, nominal cut-off at MW 15,000 dalton. Laboratory-suitable supply length of 5 and 15 m/roll, graded flat widths between 24 mm and 180 mm.

Technical specification

- **Diffusion permeability for salts:** 2.8 x 10^{-4} cm x s^{-1}; (pressureless continuous-flow cell; 0.1 % aqueous urea solution at +20 °C)
- **Mechanical permeability:** 1.5 x 10^{-5} cm x s^{-1} bar^{-1}; (stirring cell 0.1 bar; water at +20 °C)
- **Retention against dextran:** 60 % (1 % dextran solution MW 10,000; 0.1 bar)



Item	Flat width mm	Filling Ø mm	Filling volume ml/cm	Unit m	Price EURO
84597	24	16	2	5	43.00
84598	32	21	3.46	5	43.00
84599	34	22	4.15	5	43.00
84600	40	28	4.9	5	47.00
84602	49	34	7.54	5	54.00
84603	53	40	9.07	5	57.00
84604	58	45	10.75	5	57.00
84605	66	50	12.56	5	57.00
84607	80	60	19.62	5	57.00
84613	89	69	26.41	5	57.00
84608	102	79	33.17	5	60.00
84609	115	89	41.83	5	94.00
84610	126	122	51.5	5	99.00
84611	141	138	62.18	5	111.00
84612	156	153	73.86	5	118.00
50427	24	16	2	15	94.00
50428	32	21	3.46	15	94.00
50429	34	22	4.15	15	94.00
50430	40	28	4.9	15	110.00
50432	49	34	7.54	15	128.00
50433	53	40	9.07	15	107.00
50434	58	45	10.75	15	107.00
50435	66	50	12.56	15	107.00
50437	80	60	19.62	15	113.00
50438	89	69	26.41	15	119.00
50439	102	79	33.17	15	146.00
50440	115	89	41.83	15	200.00
50441	126	96	51.5	15	249.00
50442	141	108	62.18	15	273.00
50443	156	120	73.86	15	292.00
50444	180	138	79.64	15	308.00

THOMAPOR®-Dialysing Tubing made of Cellulose Hydrate – Rapid

Application area

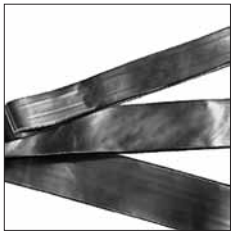
- Gentle desalination, purification and concentration of sensitive biological materials, such as sera, plant extracts, cell hydrolysates

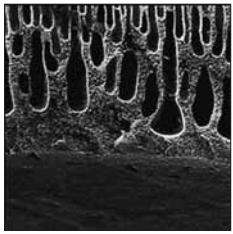
Product specification

- Seamlessly manufactured dialysing tubing made of purest cellulose hydrate membrane material. Larger number density of pores and lower wall thickness increase dialysing speed by 20 % and more compared to standard qualities without loss of mechanical stability. Mean pore size 25 Angstrom, nominal cut-off at MW 15,000 dalton. Laboratory-suitable supply length of 3 and 15 m/roll, graded flat widths between 4 mm and 148 mm.

Technical specification

- **Diffusion permeability for salts:** 4.2 x 10^{-4} cm x s^{-1}; (pressureless continuous-flow cell; 0.1 % aqueous urea solution at +20 °C)
- **Mechanical permeability:** 3.1 x 10^{-5} cm x s^{-1} bar^{-1}; (stirring cell 0.1 bar; water at +20 °C)
- **Retention against dextran:** 63 % (1 % dextran solution, MW 10,000; 0.1 bar)





Item	Flat width mm	Filling Ø mm	Filling volume ml/cm	Unit m	Price EURO
84567	4	2.6	0.05	3	62.00
84568	10	6	0.31	3	62.00
84570	25	12	1.13	3	55.00
84571	33	19	2.83	3	55.00
84573	80	51	20.42	3	65.00
84574	99	63	31.16	3	83.00
84576	148	94	69.36	3	99.00
50445	10	6	0.28	15	234.00
50446	25	12	1.13	15	208.00
50447	33	19	2.83	15	208.00
50449	80	51	20.42	15	241.00
50450	99	63	31.16	15	292.00
50452	148	94	69.36	15	386.00

THOMAPOR®-Dialysing Tubing made of Cellulose Ester

Application area

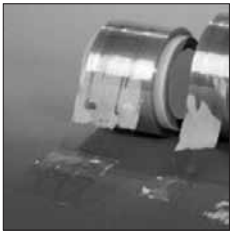
- Gentle desalination, purification and concentration of sensitive biological materials, such as sera, protein solutions, plant extracts
- Desalination of metal colloids.
- Purification of protein and nucleic acid fragments.
- Exchange of electrolytes in bioactive media.
- Growing of bacterial cultures.
- Depyrogenization of sensitive bioeffective systems.

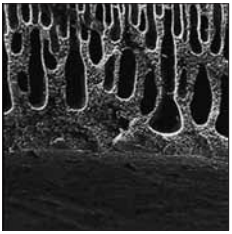
Product specification

- High-tech dialysing tubing for overall biological research, seamlessly manufactured, in rolls, made of clear highly pure and molecular-porous membrane material, absolutely free of traces of heavy metal and sulfur compounds, extremely low protein absorption. For low and high-molecular systems with correspondingly defined cut-offs.

Technical specification

- **Material:** cellulose ester, hydrophilic, symmetric porosity
- **pH range:** 2 to 9
- **Max. temperature:** +37 °C (recommended)
- **Storage:** wet, with 0.05 % sodium azide





Item	Cut off kDalton	Flat width mm	Filling Ø mm	Volume ml/cm	Length m	Price EURO
45000	0.1 - 0.5	10	6.4	0.32	10	575.00
45001	0.1 - 0.5	16	10	0.79	10	658.00
45002	0.1 - 0.5	24	15	1.8	10	754.00
45003	0.1 - 0.5	31	20	3.1	10	790.00
45034	0.5	8	5.1	0.26	10	630.00
45004	0.5 - 1	10	6.4	0.32	10	575.00
45036	0.5	12	7.7	0.38	10	675.00
45005	0.5 - 1	16	10	0.79	10	658.00
45006	0.5 - 1	24	15	1.8	10	754.00
45007	0.5 - 1	31	20	3.1	10	790.00
45040	1	12	7.7	0.38	10	675.00
45046	3.5	8	5.1	0.26	10	630.00
45008	3.5 - 5	10	6.4	0.32	10	575.00
45009	3.5 - 5	16	10	0.79	10	658.00
45010	3.5 - 5	24	15	1.8	10	754.00
45011	3.5 - 5	31	20	3.1	10	790.00
45012	8 - 10	10	6.4	0.32	10	575.00
45013	8 - 10	16	10	0.79	10	658.00
45014	8 - 10	24	15	1.8	10	754.00
45015	8 - 10	31	20	3.1	10	790.00
45061	10	16	10	0.79	10	715.00
45016	20	10	6.4	0.32	10	575.00
45017	20	16	10	0.79	10	658.00
45018	20	24	15	1.8	10	754.00
45019	20	31	20	3.1	10	790.00
45068	25	12	7.7	0.38	10	675.00
45020	50	10	6.4	0.32	10	575.00
45021	50	16	10	0.79	10	658.00
45022	50	24	15	1.8	10	754.00
45023	50	31	20	3.1	10	790.00
45024	100	10	6.4	0.32	10	575.00
45025	100	16	10	0.79	10	658.00
45026	100	24	15	1.8	10	754.00
45027	100	31	20	3.1	10	790.00
45028	300	16	10	0.79	10	658.00
45074	1000	16	10	0.79	10	658.00

THOMAPOR®-Dialysing Mini Tubing Chamber made of Cellulose Ester

Product specification

- Dialysing tubing made of sulfur- and heavy metal-free cellulose ester (CE) with integrated end pieces; one side with a flared screw cap for filling without material loss, the other side with a weighted sealing piece for safe balance in the dialysing vessel. Graduated laboratory-oriented cut-offs (MWCO) between 100 and 300,000 dalton, for dialysis of volumes up to 10 ml; diameter 10 mm, sterile packaged for the immediate use in dialysing vessels preferably in THOMAPOR®-dialysing cylinders, items 58718 and 58758.

Item	Cut off kDalton	Volume ml	Outside Ø mm	Length mm	Unit piece	Price EURO
58719	0.1 - 0.5	1	10	50	12	320.00
58721	0.5 - 1	1	10	50	12	320.00
58723	3.5 - 5	1	10	50	12	320.00
58726	8 - 10	1	10	50	12	320.00
58727	20	1	10	50	12	320.00
58729	50	1	10	50	12	320.00
58730	100	1	10	50	12	320.00
58731	300	1	10	50	12	320.00
58732	0.1 - 0.5	5	10	100	12	350.00
58734	0.5 - 1	5	10	100	12	350.00
58736	3.5 - 5	5	10	100	12	350.00
58738	8 - 10	5	10	100	12	350.00
58740	20	5	10	100	12	350.00
58742	50	5	10	100	12	350.00
58743	100	5	10	100	12	350.00
58744	300	5	10	100	12	350.00

Item	Cut off kDalton	Volume ml	Outside Ø mm	Length mm	Unit piece	Price EURO
58745	0.1 - 0.5	10	10	160	12	370.00
58747	0.5 - 1	10	10	160	12	370.00
58749	3.5 - 5	10	10	160	12	370.00
58752	8 - 10	10	10	160	12	370.00
58753	20	10	10	160	12	370.00
58755	50	10	10	160	12	370.00
58756	100	10	10	160	12	370.00
58757	300	10	10	160	12	370.00

THOMAPOR®-Dialysing Cylinder

Product specification

- Cylindrical vessel for the rapid routine dialysis with dialysing tubing, made of glass-clear, bioinert plastic material, free of leachable components; with tight-closing cover and strong 40 mm magnetic stirring bar. Flat bottom for putting on magnetic stirrers; excellently suited for all THOMAPOR®-dialysing mini tubing chambers made of cellulose ester, items 58719 to 58757; two laboratory-oriented sizes.

Item	Volume ml	Height mm	Outside Ø mm	Unit piece	Price EURO
58718	750	105	107	1	150.00
58758	1,000	175	110	1	150.00

THOMAPOR®-Closure Clamp made of PP for Dialysing Tubing

General product specification

- Clamp system for safe and gentle closure of dialysing tubing of all dimensions and types, made of physiologically safe and chemically inert polypropylene (white). To be opened at any time without problems and reusable many times. Chemically sterilizable, autoclavable at +121 °C.
- Two-part closure system, consisting of a resilient clamp with integral pressure ribs and fitted in round shaped rod. Four standard sizes for dialysing tubing with flat widths up to 17, 42, 72, 95, and 180 mm.
- The end of the dialysing tubing to be sealed is fixed with one hand over the opening of the clamp in such a way that it projects approx. 10 mm. Then the round shaped rod is pressed into the clamp.

THOMAPOR®-Dialysing Tubing Closure Clamp made of PP

Item	for max. flat width mm	Unit piece	Price EURO
84564	17	5	40.00
84565	42	5	45.00
84590	72	5	55.00
84594	95	5	61.00
84595	180	5	66.00

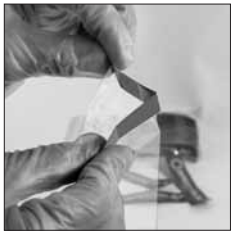
THOMAPOR®-Dialysing Tubing Clip made of PP

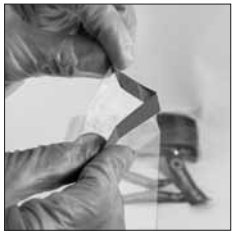
Product specification

- Polypropylene clip closes dialysing tubing reliably without damaging it.

Item	Length mm	Unit piece	Price EURO
94541	12	10	112.00
94542	35	10	92.00
94543	75	10	118.00

THOMAPOR®-Dialysing Tubing Opener





Product specification

- For single use. Angled plastic piece with self-adhesive spots. When the tubing opener is pressed together over the tubing end, the opening is drawn open. It can be left at the tubing during filling it with liquid. When the tubing gets wet, the adhesive force of the opener extinguishes.

Item	Number of adhesive spots	Unit piece	Price EURO
94540	2	100	132.00

THOMAPOR®-Dialysing Tubing Filler Funnel made of PP

Product specification

- Dialysing tubing filler funnel with graded adapter for slipping of dialysing tubing of different diameters.
- Dialysing tubing is individually cut to length, slipped over the adapter and tightly fixed with a rubber band.
- The filler funnel is now hanged at the edge of the container.
- The closure cap can be marked. The funnel is sterilizable with steam at +121 °C.

Item	For tubing inside Ø mm	Unit piece	Price EURO
12301	5 - 13	5	46.00
12302	14 - 28	5	54.00

THOMAPOR®-Holding Ring for Dialysing Membranes

Product specification

- Hold membranes of varying sizes necessary for dialysis or concentration purposes.
- Double rings made of plastic which are adjusted in such a way that they can hold membranes of any size.

Item	Outside Ø mm	Unit piece	Price EURO
50458	100	2	36.00
50459	125	2	36.00

Anion-Exchange Membranes and Cation-Exchange Membranes

THOMAPOR®-Ion-Exchange Membrane for Electrodialysis - PVC-reinforced

Product specification

- Ion-exchange membranes made of polystyrene reinforced with PVC
- Low electrical resistance
- Electrodialysis membranes have always to be kept wet and should be stored in a 3 % NaCl solution in a cool and dark place.
- Chemical resistance:
  Resistant to acids, alkalis and inorganic salt solutions; otherwise all properties as polystyrene.
  Good resistance to reducing agents. Permanent operation with oxidants reduces stability.

Technical specification

- **Thickness:** CEM: 0.15 - 0.17 mm; AEM: 0.11 - 0.14 mm
- **Tearing strength:** CEM: 3 - 4 kg/cm^2; AEM: 4 - 7 kg/cm^2
- **Resistivity:** CEM: 2.7 - 3.2 Ohm/cm^2; AEM: 3.0 - 4.5 Ohm/cm^2
- **Transport number t+:** CEM: 0.7 (K^+Na^+); AEM: 0.02
- **Transport number t++:** CEM: 0.28 ($Ca^{++}Mg^{++}$); AEM: 0.02
- **Transport number t-:** CEM: 0.02 (Cl^-); AEM: 0.94 - 0.96
- **Transport number t--:** CEM: 0.02 (SO_4^{2-}); AEM: 0.94 - 0.96
- **Exchange capacity:** CEM: 1.5 meq/g; AEM: 1.8 meq/g
- **Chemical form:** CEM: Na; AEM: Cl
- **Max. temperature:** +40 °C, for a short time +60 °C

Item	Design	Dimensions mm	Unit piece	Price EURO
553281	Anion	500 x 500	1	317.00
55329	Cation	500 x 500	1	317.00

THOMAPOR®-Anion-Exchange Membrane for Electrodialysis - dry storage

Application area

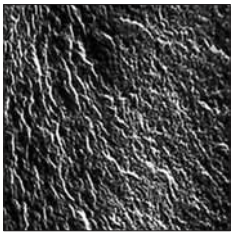
- Desalination of sea water or brackish water
- Preparation of sugar solution, whey and other aqueous and non-aqueous solutions containing ions.
- Purification of soiled pickling bathes
- Chlorine production
- Electrolytic synthesis of periodic acid and other chemicals

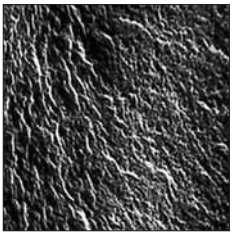
Product specification

- The membranes are supplied dry and should be stored at a dark place (max. +15 °C). Only for activation they have to be loaded in a 10% salt solution at +55 °C for at least 3 hours
- Chemical stability MA-3475**:**
  Good chemical stability in neutral solutions, in acid solutions (ph 0-7) and in alkaline solutions (ph 7-9)
  Fair chemical stability in alkaline solutions (ph 9-14)
  Poor chemical stability to mild oxidizing agents and to reducing agents
- Chemical stability MA-3512 (at +60 °C):
  H_2SO_4 up to 5 %, HCl and NaOH up to 4 %

Technical specification

- **Electrical resistance:**
  MA-3475: 24 Ohm/cm² (0.1 N NaCl); 8 Ohm/cm² (1.0 N NaCl)
  MA-3512: 14 Ohm/cm² (0.1 N NaCl); 4 Ohm/cm² (1.0 N NaCl)
- **Permeability:** 75.0 % (0.5 N NaCl/1.0 N NaCl)
- **Water permeability:** <3.2 ml/h/dm² (at 0.35 kg/cm²)
- **Pressure resistance:**
  MA-3475: min. 14 kg/cm²
  MA-3512: min. 12 kg/cm²
- **Thickness:**
  MA-3475: approx. 0.40 mm
  MA-3512: approx. 0.15 mm
- **Density:**
  MA-3475: approx. 405 g/m³
  MA-3512: approx. 187 g/m³
- **Capacity:** 0.70 meq/g
- **Max. temperature:** +95 °C
- **Dimensional stability:** wet: excellent; dry: good
- **Regulations:** Approvals of the Food Additives Regulations § 121.2593





Item	Type	Dimensions cm	Unit piece	Price EURO
50376	MA-3475	25 x 25	1	108.00
50377	MA-3475	50 x 50	1	297.00
50378	MA-3475	100 x 100	1	956.00
50379	MA-3512	25 x 30	1	100.00
50380	MA-3512	50 x 30	1	275.00
50381	MA-3512	90 x 100	1	880.00

THOMAPOR®-Cation-Exchange Membrane for Electrodialysis - dry storage

Product specification

- The membrane resistance per surface unit is determined as follows:
  a) The sample is steeped 4 hours in a 1:1 mixture of 1.0 N NaCl and 1.0 N HCl and afterwards shaked for 24 hours in a 125 ml bottle containing 1.0 N NaCl.
  b) Then the sample is exposed to a direct current for 8 minutes in a photoconductive cell containing 1.0 N NaCl. After the first 4 minutes polarity should be changed.
  c) With the 3400 series the sample is heated in 0.1 N NaCl for 20 minutes at +100 °C, but with the 3100 series at +80-90 °C. Afterwards the surface resistance per unit is determined.
- The membranes are supplied dry and should be stored at a dark place (max. +15 °C). Only for activation they have to be loaded in a 10% salt solution at +55 °C for at least 3 hours
- **Chemical stability:**
  Good chemical stability in neutral solutions, in acid solutions (ph 0-7) and in alkaline solutions (ph 7-11)
  Fair chemical stability in alkaline solutions (ph 11-14) an to mild oxidizing agents
  Poor chemical stability to reducing agents

Technical specification

- **Electrical resistance:** 15 Ohm/cm² (0.1 N NaCl); 6 Ohm/cm² (1.0 N NaCl)
- **Permeability:** 96 % (0.5 N NaCl/1.0 N NaCl)
- **Water permeability:** <3.2 ml/h/dm² (at 0.35 kg/cm²)
- **Pressure resistance:** min. 14 kg/cm²
- **Thickness:** approx. 0.40 mm
- **Density:** approx. 405 g/m³
- **Capacity:** 1.22 meq/g
- **Max. temperature:** +95 °C
- **Dimensional stability:** wet: excellent; dry: good
- **Regulations:** Approvals of the Food Additives Regulations; § 121.2593

Item	Type	Dimensions cm	Unit piece	Price EURO
50382	MC-3470	25 x 25	1	108.00
50383	MC-3470	50 x 50	1	297.00
50384	MC-3470	100 x 100	1	957.00

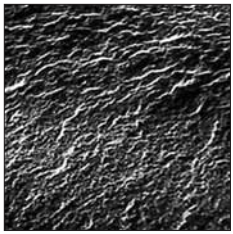
THOMAPOR®-Anion-Exchange Membrane for Electrodialysis

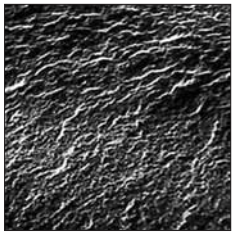
Product specification

- Anion permeable membranes, PET reinforced
- Strongly basic
- Electrodialysis membranes have always to be kept wet and should be stored in a 3 % NaCl solution in a cool and dark place.
- Chemical resistance:
  Very good to acetaldehyde (15 %), acetaldehyde (30 %), aniline (4 %), ethanol (15 %), ethanol (50 %), ethylenglycol (15 %), ethylenglycol (30 %), acetic acid (15 %), acetic acid (50 %), H_2SO_4 (10 %), H_2SO_4 (30 %), HCl (7 %), HCl (35 %), oxalic acid (10 %), pyridine (15 %), pyridine (50 %), tartaric acid (15 %), tartaric acid (50 %)
  Good to ethyl „Cellosolve“ (50 %), ethylacetic acid (15 %), cresol (2.6 %), methyl „Cellosolve“ (50 %), triethylamine[1)] (15 %), triethylamine[1)] (50 %)
  Less good to acetone (15 %), dioxan (30 %), hydrochinone (5.8 %), methylethyl ketone (15 %), phenol (6 %), propylene glycol (50 %)
  [1)] The transport number decreases with increasing electrical resistance

Technical specification

- **Colour:** brown
- **Thickness:** 0.13 mm
- **Resistivity:** 3.3 Ohm*cm² (The resistivity was measured after equilibrium with 0.5 M NaCl solution at +25 °C.)
- **Counterion:** bromide (br)
- **Water content:** 15 wt % (at +25 °C)
- **Ion exchange capacity:** 1.14 meq g^{-1}
- **Selectivity (0.1/0.5 mol/kg KCl):** 97.9 % (at +25 °C)
- **Specific conductivity:** 4.0 mS cm^{-1} (in Cl^- form in 0.5 M NaCl at +25 °C)
- **pH stability range:** 1 - 8 (at +25 °C)
- **Delivery form:** dry





Item	Dimensions mm	Unit piece	Price EURO
302899	250 x 250	1	225.00
302900	500 x 500	1	665.00

THOMAPOR®-Anion-Exchange Membrane for Electrodialysis - very stable

Product specification

- Anion permeable membranes
- For all-purpose use, high mechanical stability
- Strongly basic
- Electrodialysis membranes have always to be kept wet and should be stored in a 3 % NaCl solution in a cool and dark place.
- Chemical resistance:
  Very good to acetone (30 %), acetic acid (50 %), ethanol (50 %), ethylenglycol (50 %), H_2SO_4 (10 %), H_2SO_4 (40 %), HCl (10 %), HNO_3 (20 %), methanol (50 %), NaCl (3 %), NaCl (20 %), sodium thiosulfate (3 %), phenol (7 %), citric acid (50 %)
  Less good to dioxan (30 %), NaOH (5 %), NH_3 (4 %)
  Very low to strong oxidants

Technical specification

- **Thickness:** 0.16 - 0.18 mm
- **Tearing strength:** 4.5 - 5.5 kg/cm²
- **Resistivity:** 2.5 - 3.5 Ohm*cm² (The resistivity was measured after equilibrium with 0.5 N NaCl solution at +25 °C.)
- **Transport number t:** >0.98 (Cl^- SO_4^{--}) (Transport number at +25 °C (measured by electrophoresis of sea water; current density 2 A/dm²))
- **Counterion:** Cl^-
- **Water content:** 0.25 - 0.30 g water/g dry membrane (equilibr.: 0.5 N NaCl solution)
- **Ion exchange capacity:** 1.4 - 1.7 meq/g dry membrane

Item	Dimensions mm	Unit piece	Price EURO
302901	250 x 250	1	105.00
302902	500 x 500	1	330.00

THOMAPOR®-Cation-Exchange Membrane for Electrodialysis - very stable

Product specification

- Cation permeable membranes
- For all-purpose use, high mechanical stability
- Strongly basic
- Electrodialysis membranes have always to be kept wet and should be stored in a 3 % NaCl solution in a cool and dark place.
- Chemical resistance:
  Very good to acetic acid (50 %), ethanol (50 %), ethylenglycol (50 %), H_2SO_4 (10 %), H_2SO_4 (40 %), HCl (10 %), HNO_3 (20 %), methanol (50 %), NaCl (3 %), NaCl (20 %), NaOH (5 %), sodium thiosulfate (3 %), NH_3 (4 %), citric acid (50 %)
  Less good to acetone (30 %), dioxan (30 %)
  Very low to phenol (7 %), strong oxidants

Technical specification

- **Thickness:** 0.17 - 0.19 mm
- **Tearing strength:** 5 - 6 kg/cm²
- **Resistivity:** 2.5 - 3.5 Ohm x cm², the resistivity was measured after equilibrium with 0.5 N NaCl solution at +25 °C
- **Transport number t:** >0.98 (Na^+ K^+ Ca^{++} Mg^{++}), transport number at +25 °C (measured by electrophoresis of sea water; current density 2 A/dm²)
- **Counterion:** Na^+
- **Water content:** 0.25 - 0.30 g water/g dry membrane (equilibr.: 0.5 N NaCl solution)
- **Ion exchange capacity:** 1.5 - 1.8 meq/g dry membrane

Item	Dimensions mm	Unit piece	Price EURO
302890	250 x 250	1	105.00
302891	500 x 500	1	330.00

Hollow Fibres

THOMAPOR®-Hollow Fibres

Application area

- Separation of organic salts (desalination)
- Separation of impurities of low molecular masses (purification)
- Exchange of salts of low molecular masses (buffer exchange)

In principle, all these applications are effected in the same way: Salts and other low molecular weight components diffuse out of the sample from one side of fibre into the dialysing solution. Due to the isotropy of the fibre dissolved substances can diffuse in both directions through the fibre. Particularly suited for dialysis of dissolved substances in a molecular mass range of 500-2000.

General product specification

- THOMAPOR®-hollow fibres are particularly suited for the dialysis of dissolved substances in a molecular mass range of 500-2000. The high permeability of dissolved substances in this range does not involve a high water permeability.
- Micro hollow fibre:
  For concentration, desalination, and purification of ultramicro and micro amounts of valuable compounds (0.1 - 200 µl). Microsamples up to 0.1 µl can be sucked off in the micro dialysing fibre bundle. Outstandingly suited for dialysis and filtration are hollow fibres of a smaller diameter with inlet and outlet for samples. The hollow fibres are made of cellulose prepared of cotton linters.
- Macro hollow fibre:
  The use of hollow fibres in desalination, concentration and fractionation is based on the unique feature of hollow fibres which can be imagined as a molecular sieve with pores the sizes of which can be controlled. Molecules smaller than the pores of the fibre wall can diffuse through it while larger molecules are retained.
  The homogenous structure of the fibres allows diffusion of dissolved substances in both directions, either from the inside of the fibre to the outside or vice versa.
  Dialysis was used traditionally for separation of salts and other dissolved low molecular weight substances out of biological and biochemical solutions. Many conventional dialysis techniques such as the use of dialysing bags are slower and inconvenient.
  The application of hollow fibres allows for instance a 95 % separation of salt out of serum in only 20 minutes.
  The hollow fibre units consist of bundles of small (200 µm inner diameter) semipermeable cellulose membrane tubing, which have a high surface/volume ratio compared to a bag.
  A large number of hollow fibres per bundle enlarges the effective surface and increases dialysis velocity.

THOMAPOR®-Micro Single Hollow Fibre for In-Vivo Dialysis

Product specification

- Hollow fibres for in-vivo applications and microdialysis, made of regenerated cellulose, inside diameter 200 µm, outside diameter 216 µm, length approx. 154 mm; working volume approx. 5 µl, flow rate at 10 mm Hg about 3 ml/h.

Item	Cut off kDalton	Number fibres	Unit piece	Price EURO
58925	13	1	20	349.00
58926	18	1	20	349.00

THOMAPOR®-Hollow Fibre Bundle for Microdialysis

Product specification

- Complete hollow fibre bundles for processing of quantities up to 200 µl, made of regenerated cellulose (RC), cut-off (MWCO) 13,000 and 18,000 dalton resp. Hollow fibre inside diameter 200 µm, hollow fibre outside diameter 216 µm; fitted with sealing end pieces.

Item	Cut off kDalton	Number fibres	Bundle volume µl	Unit piece	Price EURO
50468	13	20	140	1	330.00
58924	18	20	140	1	415.00

Borosilicate Glass Filter Disks

THOMAPOR®-Filter made of Borosilicate glass

Application area

- Filters made of borosilicate glass are suitable for various applications because of their excellent properties. Applications are pharmaceutical, biotechnology, medical, chemical and environmental. They are used from coarse liquid and gas distribution to bacteria filtering.

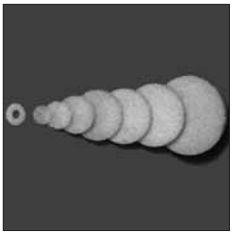
General product specification

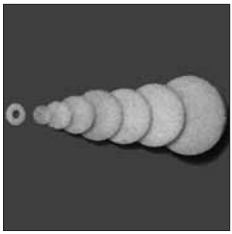
- THOMAPOR®-borosilicate universal filters are exclusively made of borosilicate glass, without using other substances, such as binding agents which corresponds to DIN ISO 3585. They consist of pure glass grit.
- The filter effect of a porous pad comprises screen effect and adsorption. If a filter should only act as a screen, its pores have to be smaller than the solid particles to be filtrated. The fluid volume to be put through is relatively small. Large flow volumes are achieved by use of a filter pad of which the filter effect is primarily based on adsorption. In this case, the filter pores can to be several times larger than the solid particles to be separated; e.g. for sterile filtration of air porous filter pads with pore sizes of 15 to 40 µm are used while the size of the particles to be retained (micro-organisms) is only 1/10 to 1/50 of the filter pore size. A sure adsorption can only be achieved with a very large inner surface of the filter body. If a filter pad is fritted of glass grit should get a large inner surface, the single granule already has to have a maximum large surface.
- In this respect the THOMAPOR®-borosilicate universal filter program is an innovation. For production of the granules special crushing processes are used guaranteeing a splintery granule with a particularly large surface. This surface is again enlarged by a special treatment.
- THOMAPOR®-borosilicate universal filters are manufactures as round plates in sizes of 5 to 400 mm diameter and are available in two designs:
  Type: G: ground to nominal diameter, edge non-fused
  Type BG: ground to nominal diameter and surface biplane, edge non-fused
- The filter porosity is divided into 6 categories and lies between 10 and 500 µm, rendering the filters usable for all work in the chemical and pharmaceutical industry, in the laboratory and in industrial-scale plants.
- Nominal value of maximum pore size (µm):
  250 - 500: distribution of fluids and gases, supports for solid materials in flow systems
  160 - 250: distribution of gases, distribution of gases in fluids with low gas pressure, filtration of coarse precipitations
  100 - 160: coarse filtration, filtration of coarse precipitations, gas distribution in fluids, fluid distribution, coarse gas filter, extraction apparatuses for coarse material, supports for loose filter layers against gelatinous precipitations
  40 - 100: preparative fine filtration, preparative work with crystalline precipitations, mercury filtration
  16 - 40: analytical filtration, analytical work with medium fine precipitations, preparative work with fine precipitations, filtrations in cellulose chemistry, fine gas filters, extraction apparatuses for fine-granular material
  10 - 16: analytical fine filtration, analytical work with very fine precipitations (e.g. $BaSO_4$, Cu_20), preparative work with corresponding fine precipitations, check-valve and stop valve for mercury

THOMAPOR®-Filter Disk made of Borosilicate glass - Type: G

Product specification

- Type: G: ground to nominal diameter, edge non-fused





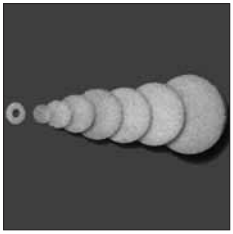
Item	Outside Ø[1] mm	Pore size µm	Unit piece	Price EURO
52559	10	250 - 500	10	57.00
52560	10	160 - 250	10	57.00
52561	10	100 - 160	10	57.00
52562	10	40 - 100	10	57.00
52563	10	16 - 40	10	57.00
52564	10	10 - 16	10	64.00
52566	10	250 - 500	10	59.00
52567	10	160 - 250	10	59.00
52568	20	100 - 160	10	59.00
52569	20	40 - 100	10	59.00
52570	20	16 - 40	10	59.00
52571	20	10 - 16	10	75.00
52573	20	250 - 500	10	62.00
52574	20	160 - 250	10	62.00
52575	25	100 - 160	10	62.00
52576	25	40 - 100	10	62.00
52577	25	16 - 40	10	62.00
52578	25	10 - 16	10	72.00
52580	25	250 - 500	10	69.00
52581	25	160 - 250	10	69.00
52582	30	100 - 160	10	69.00
52583	30	40 - 100	10	69.00
52584	30	16 - 40	10	69.00
52585	30	10 - 16	10	80.00
52587	30	250 - 500	10	85.00
52588	30	160 - 250	10	85.00
52589	40	100 - 160	10	85.00
52590	40	40 - 100	10	85.00
52591	40	16 - 40	10	85.00
52592	40	10 - 16	10	92.00
52593	40	250 - 500	10	118.00
52594	40	160 - 250	10	118.00
52595	50	100 - 160	10	118.00
52596	50	40 - 100	10	118.00
52597	50	16 - 40	10	118.00
52598	50	10 - 16	10	138.00
52599	50	250 - 500	6	105.00
52600	50	160 - 250	6	105.00
52601	60	100 - 160	6	105.00
52602	60	40 - 100	6	105.00
52603	60	16 - 40	6	105.00
52604	60	10 - 16	6	132.00
52605	60	250 - 500	3	93.00
52606	60	160 - 250	3	93.00
52607	70	100 - 160	3	93.00
52608	70	40 - 100	3	93.00
52609	70	16 - 40	3	93.00
52610	70	10 - 16	3	120.00
52611	70	250 - 500	3	102.00
52612	70	160 - 250	3	102.00
52613	80	100 - 160	3	102.00
52614	80	40 - 100	3	102.00
52615	80	16 - 40	3	102.00
52616	80	10 - 16	3	132.00
52617	80	250 - 500	3	108.00
52618	80	160 - 250	3	108.00
52619	90	100 - 160	3	108.00
52620	90	40 - 100	3	108.00
52621	90	16 - 40	3	108.00
52622	90	10 - 16	3	147.00
52623	90	250 - 500	1	82.00
52624	90	160 - 250	1	82.00
52625	100	100 - 160	1	82.00
52626	100	40 - 100	1	82.00
52627	100	16 - 40	1	82.00
52628	100	10 - 16	1	108.00
52629	100	250 - 500	1	100.00
52630	100	160 - 250	1	100.00
52631	120	100 - 160	1	100.00
52632	120	40 - 100	1	100.00
52633	120	16 - 40	1	100.00
52634	120	10 - 16	1	120.00

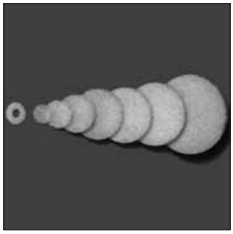
[1] ground to nominal diameter

THOMAPOR®-Filter Disk made of Borosilicate glass - Type: BG, biplane ground

Product specification

- Type BG: ground to nominal diameter and surface biplane, edge non-fused





Item	Outside Ø[1] mm	Pore size µm	Unit piece	Price EURO
52637	5	160 - 250	10	85.00
52638	5	100 - 160	10	85.00
52639	5	40 - 100	10	85.00

Item	Outside Ø[1] mm	Pore size µm	Unit piece	Price EURO
52640	5	16 - 40	10	85.00
52641	5	10 - 16	10	100.00
52642	10	250 - 500	10	90.00
52643	10	160 - 250	10	90.00
52644	10	100 - 160	10	90.00
52645	10	40 - 100	10	90.00
52646	10	16 - 40	10	90.00
52647	10	10 - 16	10	105.00
52648	20	250 - 500	10	92.00
52649	20	160 - 250	10	92.00
52650	20	100 - 160	10	92.00
52651	20	40 - 100	10	92.00
52652	20	16 - 40	10	92.00
52653	20	10 - 16	10	110.00
52654	25	250 - 500	10	100.00
52655	25	160 - 250	10	100.00
52656	25	100 - 160	10	100.00
52657	25	40 - 100	10	100.00
52658	25	16 - 40	10	100.00
52659	25	10 - 16	10	118.00
52660	30	250 - 500	10	105.00
52661	30	160 - 250	10	105.00
52662	30	100 - 160	10	105.00
52663	30	40 - 100	10	105.00
52664	30	16 - 40	10	105.00
52665	30	10 - 16	10	126.00
52666	40	250 - 500	6	87.00
52667	40	160 - 250	6	87.00
52668	40	100 - 160	6	87.00
52669	40	40 - 100	6	87.00
52670	40	16 - 40	6	87.00
52671	40	10 - 16	6	96.00
52672	50	250 - 500	6	117.00
52673	50	160 - 250	6	117.00
52674	50	100 - 160	6	117.00
52675	50	40 - 100	6	117.00
52676	50	16 - 40	6	117.00
52677	50	10 - 16	6	129.00
52678	60	250 - 500	3	93.00
52679	60	160 - 250	3	93.00
52680	60	100 - 160	3	93.00
52681	60	40 - 100	3	93.00
52682	60	16 - 40	3	93.00
52683	60	10 - 16	3	102.00
52684	70	250 - 500	3	141.00
52685	70	160 - 250	3	141.00
52686	70	100 - 160	3	141.00
52687	70	40 - 100	3	141.00
52688	70	16 - 40	3	141.00
52689	70	10 - 16	3	153.00
52690	80	250 - 500	2	110.00
52691	80	160 - 250	2	110.00
52692	80	100 - 160	2	110.00
52693	80	40 - 100	2	110.00
52694	80	16 - 40	2	110.00
52695	80	10 - 16	2	120.00
52696	90	250 - 500	2	139.00
52697	90	160 - 250	2	139.00
52698	90	100 - 160	2	139.00
52699	90	40 - 100	2	139.00
52700	90	16 - 40	2	139.00
52701	90	10 - 16	2	151.00
52702	100	250 - 500	1	118.00
52703	100	160 - 250	1	118.00
52704	100	100 - 160	1	118.00
52705	100	40 - 100	1	118.00
52706	100	16 - 40	1	118.00
52707	100	10 - 16	1	126.00
52708	120	250 - 500	1	170.00
52709	120	160 - 250	1	170.00
52710	120	100 - 160	1	170.00
52711	120	40 - 100	1	170.00
52712	120	16 - 40	1	170.00
52713	120	10 - 16	1	181.00

[1] ground to nominal diameter and biplane

Sintered Plates, Sintered Rods and Sintered Pipes

THOMAPOR®-Porous Sintered Material made of PE

Application area

- Filtration of gases and fluids
- Gassing and ventilation, atomization
- Fluidizing (keeping bulk material suspended by homogenous flowing through of a carrier gas)
- Use of the porous material structure and its chemical resistance (condensate separation, separation of emulsions, diaphragm in electrodialysis, carrier body for fluids as false bottom)

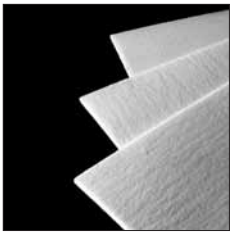
General product specification

- Porous sintered plastic made of pure low-pressure HDPE of high density. Through an exactly defined and controlled sintering process PE granules are fused together so that stable bodies of various shapes form. By granular material selection and choice of process parameters the pore size of the porous THOMAPOR®-sintered elements can be selectively influenced.
- Temperature load:
  +82 °C as permanent load;
  +100 °C without loading;
  +116 °C with interruptions
- Material of very high density and hydrophobic properties
- Very well suited for machining. Material can be sawed, through-drilled and processed by machines.
- Allows thermic welding with hot inert gas or with a PTFE-coated welder
- Can be bonded by epoxy-based adhesives with itself, with wood, metal and ceramics. Epoxy forms a mechanical bond with the plastic and a chemical bond with the substrate resulting in a strong bonding.
- Resistant to alkohols, aliphatic hydrocarbons, organic compounds such as technical oils, strong alkalis, acids and their salt-formers. A weak attack is possible by oxidants, chlorinated and aromatic hydrocarbons.

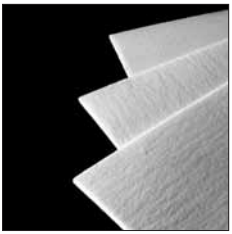
THOMAPOR®-Sintered Plate made of Porous UHMW-PE

Technical specification

- **Material:** polyethylene of ultrahigh molecular weight UHMW-PE
- **Design:** plates, hydrophobic



52381, 12135



52381, 12135

Item	Pore size µm	Thickness mm	Dimensions mm	Price EURO
52381	10	1.6	100 x 100	49.00
52382	20	1.6	100 x 100	54.00
52383	10	1.6	250 x 250	72.00
52384	20	1.6	250 x 250	77.00
52385	10	1.6	500 x 500	133.00
52386	20	1.6	500 x 500	139.00
52387	10	3.2	100 x 100	62.00
52388	20	3.2	100 x 100	67.00
52389	10	3.2	250 x 250	105.00
52390	20	3.2	250 x 250	110.00
52391	10	3.2	500 x 500	251.00
52392	20	3.2	500 x 500	259.00
52393	10	6.35	100 x 100	75.00
52394	20	6.35	100 x 100	80.00
52395	10	6.35	250 x 250	149.00
52396	20	6.35	250 x 250	156.00
52397	10	6.35	500 x 500	338.00
52398	20	6.35	500 x 500	346.00

THOMAPOR®-Sintered Plate made of Microporous HDPE

Technical specification

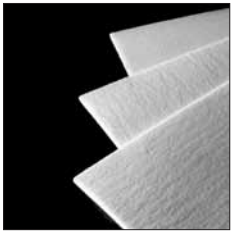
- **Material:** low pressure polyethylene (HDPE) of high density
- **Design:** hydrophobic, does not swell in water

Item	Pore size µm	Filter fineness µm	Porosity %	Thick-ness mm	Dimensions cm	Price EURO
12135	10	2	35	3	25 x 25	95.00
12136	10	2	35	3	50 x 50	277.00
12137	10	2	35	3	100 x 100	834.00
12138	10	2	45	5	25 x 25	95.00
12139	10	2	45	5	50 x 50	277.00
12140	10	2	45	5	100 x 100	834.00
12141	10	2	45	8	25 x 25	105.00
12142	10	2	45	8	50 x 50	305.00
12143	10	2	45	8	100 x 100	936.00
12144	10	2	45	20	25 x 25	197.00
12145	10	2	45	20	50 x 50	596.00
12146	10	2	45	20	100 x 100	1,580.00
12147	20	5	35	3	25 x 25	95.00
12148	20	5	35	3	50 x 50	277.00
12149	20	5	35	3	100 x 100	834.00
12150	20	5	45	5	25 x 25	95.00
12151	20	5	45	5	50 x 50	277.00
12152	20	5	45	5	100 x 100	834.00
12153	20	5	45	8	25 x 25	105.00
12154	20	5	45	8	50 x 50	305.00
12155	20	5	45	8	100 x 100	936.00
12156	20	5	45	20	25 x 25	197.00
12157	20	5	45	20	50 x 50	596.00
12158	20	5	45	20	100 x 100	1,580.00
12159	40	10	35	3	25 x 25	95.00
12160	40	10	35	3	50 x 50	277.00
12161	40	10	35	3	100 x 100	834.00
12162	40	10	45	5	25 x 25	95.00
12163	40	10	45	5	50 x 50	277.00
12164	40	10	45	5	100 x 100	834.00
12165	40	10	45	8	25 x 25	105.00
12166	40	10	45	8	50 x 50	305.00
12167	40	10	45	8	100 x 100	936.00
12168	40	10	45	20	25 x 25	197.00
12169	40	10	45	20	50 x 50	596.00
12170	40	10	45	20	100 x 100	1,580.00
12171	80	20	35	3	25 x 25	95.00
12172	80	20	35	3	50 x 50	277.00
12173	80	20	35	3	100 x 100	834.00
12174	80	20	45	5	25 x 25	95.00
12175	80	20	45	5	50 x 50	277.00
12176	80	20	45	5	100 x 100	834.00
12177	80	20	45	8	25 x 25	105.00
12178	80	20	45	8	50 x 50	305.00
12179	80	20	45	8	100 x 100	936.00
12180	80	20	45	20	25 x 25	197.00
12181	80	20	45	20	50 x 50	596.00
12182	80	20	45	20	100 x 100	1,580.00

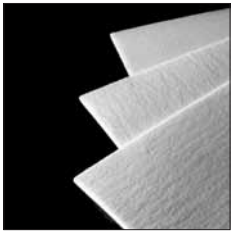
THOMAPOR®-Sintered Plate made of Porous HDPE

Technical specification

- **Material:** low pressure polyethylene (HDPE) of high density
- **Design:** plates, hydrophobic



52228, 52905



52228, 52905

Item	Pore size µm	Thickness mm	Dimensions mm	Price EURO
52228	35	1.6	100 x 100	29.00
52229	70	1.6	100 x 100	29.00
52230	120	1.6	100 x 100	29.00
52231	250	1.6	100 x 100	29.00
52232	35	1.6	250 x 250	56.00
52233	70	1.6	250 x 250	56.00
52234	120	1.6	250 x 250	56.00
52235	250	1.6	250 x 250	56.00
52236	35	1.6	500 x 500	132.00
52237	70	1.6	500 x 500	132.00
52238	120	1.6	500 x 500	132.00
52239	250	1.6	500 x 500	132.00
52240	35	3.2	100 x 100	44.00
52241	70	3.2	100 x 100	44.00
52242	120	3.2	100 x 100	44.00
52243	250	3.2	100 x 100	44.00
52244	35	3.2	250 x 250	70.00
52245	70	3.2	250 x 250	70.00
52246	120	3.2	250 x 250	70.00
52247	250	3.2	250 x 250	70.00
52248	35	3.2	500 x 500	153.00
52249	70	3.2	500 x 500	153.00
52250	120	3.2	500 x 500	153.00
52251	250	3.2	500 x 500	153.00
52252	35	6.35	100 x 100	65.00
52253	70	6.35	100 x 100	65.00
52254	120	6.35	100 x 100	65.00
52255	250	6.35	100 x 100	65.00
52256	35	6.35	250 x 250	102.00
52257	70	6.35	250 x 250	102.00
52258	120	6.35	250 x 250	102.00
52259	250	6.35	250 x 250	102.00
52260	35	6.35	500 x 500	199.00
52261	70	6.35	500 x 500	199.00
52262	120	6.35	500 x 500	199.00
52263	250	6.35	500 x 500	199.00

THOMAPOR®-Sintered Plate made of Porous LDPE

Technical specification

- **Material:** low pressure polyethylene with highly porous structure
- **Density:** 0.61 - 0.66 g/cm^3

Item	Pore size µm	Porosity %	Thickness mm	Dimensions mm	Price EURO
52905	20	40	3	225 x 225	105.00
52906	20	40	5	225 x 225	105.00
52907	20	40	6	225 x 225	141.00
52908	20	40	8	225 x 225	141.00
529011	20	40	3	450 x 450	243.00
52902	20	40	5	450 x 450	243.00
52903	20	40	6	450 x 450	305.00
52904	20	40	8	450 x 450	305.00

THOMAPOR®-Sintered Disk made of Porous UHMW-PE

Technical specification

- **Material:** polyethylene of ultrahigh molecular weight (UHMW-PE)
- **Design:** disks, hydrophobic

Item	Pore size µm	Outside Ø mm	Thickness mm	Unit piece	Price EURO
52417	10	13	1.6	25	60.00
52418	20	13	1.6	25	65.00
52419	10	13	3.2	25	100.00
52420	20	13	3.2	25	100.00
52421	10	13	6.35	25	125.00
52422	20	13	6.35	25	150.00
52425	10	25	1.6	25	125.00
52426	20	25	1.6	25	130.00
52427	10	25	3.2	25	140.00
52428	20	25	3.2	25	150.00
52429	10	25	6.35	25	175.00
52430	20	25	6.35	25	175.00
52433	10	47	1.6	10	on req.
52434	20	47	1.6	10	on req.
52435	10	47	3.2	10	on req.
52436	20	47	3.2	10	on req.
52437	10	47	6.35	10	on req.
52438	20	47	6.35	10	on req.
52441	10	50	1.6	10	on req.
52442	20	50	1.6	10	on req.
52443	10	50	3.2	10	on req.
52444	20	50	3.2	10	on req.
52445	10	50	6.35	10	on req.
52446	20	50	6.35	10	on req.
52449	10	76	1.6	5	on req.
52450	20	76	1.6	5	on req.
52451	10	76	3.2	5	on req.
52452	20	76	3.2	5	on req.
52453	10	76	6.35	5	on req.
52454	20	76	6.35	5	on req.
52457	10	90	1.6	5	on req.
52458	20	90	1.6	5	on req.
52459	10	90	3.2	5	on req.
52460	20	90	3.2	5	on req.
52461	10	90	6.35	5	on req.
52462	20	90	6.35	5	on req.

THOMAPOR®-Sintered Disk made of Porous HDPE

Technical specification

- **Material:** low pressure polyethylene (HDPE) of high density
- **Design:** disks, hydrophobic

Item	Pore size µm	Outside Ø mm	Thickness mm	Unit piece	Price EURO
52266	35	13	1.6	25	78.00
52267	70	13	1.6	25	78.00
52268	120	13	1.6	25	78.00
52269	250	13	1.6	25	78.00
52270	35	13	3.2	25	124.00
52271	70	13	3.2	25	124.00
52272	120	13	3.2	25	124.00
52273	250	13	3.2	25	124.00
52274	35	13	6.35	25	156.00
52275	70	13	6.35	25	156.00
52276	120	13	6.35	25	156.00
52277	250	13	6.35	25	156.00
52278	35	25	1.6	25	126.00
52279	70	25	1.6	25	126.00
52280	120	25	1.6	25	126.00
52281	250	25	1.6	25	126.00
52282	35	25	3.2	25	144.00
52283	70	25	3.2	25	144.00
52284	120	25	3.2	25	144.00
52285	250	25	3.2	25	144.00
52286	35	25	6.35	25	180.00
52287	70	25	6.35	25	180.00
52288	120	25	6.35	25	180.00
52289	250	25	6.35	25	180.00
52291	35	47	1.6	10	183.00
52292	70	47	1.6	10	183.00
52293	120	47	1.6	10	183.00
52294	250	47	1.6	10	183.00
52295	35	47	3.2	10	219.00
52296	70	47	3.2	10	219.00
52297	120	47	3.2	10	219.00
52298	250	47	3.2	10	219.00
52299	35	47	6.35	10	276.00
52300	70	47	6.35	10	276.00
52301	120	47	6.35	10	276.00
52302	250	47	6.35	10	276.00
52303	35	50	1.6	10	on req.
52304	70	50	1.6	10	on req.
52305	120	50	1.6	10	on req.
52306	250	50	1.6	10	on req.
52307	35	50	3.2	10	on req.
52308	70	50	3.2	10	on req.
52309	120	50	3.2	10	on req.
52310	250	50	3.2	10	on req.
52311	35	50	6.35	10	on req.
52312	70	50	6.35	10	on req.
52313	120	50	6.35	10	on req.
52314	250	50	6.35	10	on req.
52316	35	76	1.6	5	on req.
52317	70	76	1.6	5	on req.
52318	120	76	1.6	5	on req.
52319	250	76	1.6	5	on req.
52320	35	76	3.2	5	on req.
52322	120	76	3.2	5	on req.
52323	250	76	3.2	5	on req.
52326	120	76	6.35	5	on req.
52327	250	76	6.35	5	on req.
52328	35	90	1.6	5	on req.
52330	120	90	1.6	5	on req.
52338	120	90	6.35	5	on req.

THOMAPOR®-Sintered Pipe made of Porous UHMW-PE

Technical specification

- **Material:** polyethylene of ultrahigh molecular weight UHMW-PE
- **Design:** seamless and hydrophobic

Item	Pore size µm	Inside Ø mm	Outside Ø mm	Length mm	Price EURO
52353	10	12.7	19	460	96.00
52354	20	12.7	19	460	100.00
52355	10	12.7	25.4	460	110.00
52356	20	12.7	25.4	460	116.00
52357	10	19	25.4	460	110.00
52358	20	19	25.4	460	116.00
52359	10	25.4	38	460	121.00
52360	20	25.4	38	460	126.00
52361	10	28.6	35	460	121.00
52362	20	28.6	35	460	126.00
52363	10	39.6	52.4	460	162.00
52364	20	39.6	52.4	460	167.00
52365	10	42.8	52.4	460	162.00
52366	20	42.8	52.4	460	167.00
52367	10	57.2	70	460	192.00
52368	20	57.2	70	460	197.00
52369	10	60.8	76	460	202.00
52370	20	60.8	76	460	208.00

Item	Pore size µm	Inside Ø mm	Outside Ø mm	Length mm	Price EURO
52371	10	63.6	70	460	210.00
52372	20	63.6	70	460	215.00
52373	10	66.4	76	460	210.00
52374	20	66.4	76	460	215.00
52375	10	139.6	152.4	460	548.00
52376	20	139.6	152.4	460	558.00
52377	10	152.2	165	460	609.00
52378	20	152.2	165	460	624.00

THOMAPOR®-Sintered Pipe made of Microporous HDPE

Technical specification

- **Material:** low pressure polyethylene (HDPE) of high density
- **Design:** hydrophobic, does not swell in water

Item	Pore size µm	Filter fineness µm	Porosity %	I-Ø mm	O-Ø mm	Unit m	Price EURO
12183	10	2	35	20	40	0.25	75.00
12184	10	2	35	20	40	0.5	141.00
12185	10	2	35	20	40	1	264.00
12186	10	2	35	28	40	0.25	75.00
12187	10	2	35	28	40	0.5	141.00
12188	10	2	35	28	40	1	264.00
12189	10	2	35	30	50	0.25	85.00
12190	10	2	35	30	50	0.5	159.00
12191	10	2	35	30	50	1	297.00
12192	10	2	35	40	50	0.25	85.00
12193	10	2	35	40	50	0.5	159.00
12194	10	2	35	40	50	1	297.00
12195	10	2	35	40	60	0.25	93.00
12196	10	2	35	40	60	0.5	174.00
12197	10	2	35	40	60	1	330.00
12198	10	2	35	50	60	0.25	93.00
12199	10	2	35	50	60	0.5	174.00
12200	10	2	35	50	60	1	330.00
12201	10	2	35	40	70	0.25	100.00
12202	10	2	35	40	70	0.5	195.00
12203	10	2	35	40	70	1	369.00
12204	10	2	35	60	70	0.25	100.00
12205	10	2	35	60	70	0.5	195.00
12206	10	2	35	60	70	1	369.00
12207	20	5	40	20	40	0.25	75.00
12208	20	5	40	20	40	0.5	141.00
12209	20	5	40	20	40	1	264.00
12210	20	5	40	28	40	0.25	75.00
12211	20	5	40	28	40	0.5	141.00
12213	20	5	40	28	40	1	264.00
12214	20	5	40	30	50	0.25	85.00
12215	20	5	40	30	50	0.5	159.00
12216	20	5	40	30	50	1	297.00
12217	20	5	40	40	50	0.25	85.00
12218	20	5	40	40	50	0.5	159.00
12219	20	5	40	40	50	1	297.00
12220	20	5	40	40	60	0.25	93.00
12221	20	5	40	40	60	0.5	174.00
12222	20	5	40	40	60	1	330.00
12223	20	5	40	50	60	0.25	93.00
12224	20	5	40	50	60	0.5	174.00
12225	20	5	40	50	60	1	330.00
12226	20	5	40	40	70	0.25	100.00
12227	20	5	40	40	70	0.5	195.00
12228	20	5	40	40	70	1	369.00
12229	20	5	40	60	70	0.25	100.00
12230	20	5	40	60	70	0.5	195.00
12231	20	5	40	60	70	1	369.00
12232	40	10	45	20	40	0.25	75.00
12233	40	10	45	20	40	0.5	141.00
12234	40	10	45	20	40	1	264.00
12235	40	10	45	28	40	0.25	75.00
12236	40	10	45	28	40	0.5	141.00
12237	40	10	45	28	40	1	264.00
12238	40	10	45	30	50	0.25	85.00
12239	40	10	45	30	50	0.5	159.00
12240	40	10	45	30	50	1	297.00
12241	40	10	45	40	50	0.25	85.00
12242	40	10	45	40	50	0.5	159.00
12243	40	10	45	40	50	1	297.00
12244	40	10	45	40	60	0.25	93.00
12245	40	10	45	40	60	0.5	174.00
12246	40	10	45	40	60	1	330.00
12247	40	10	45	50	60	0.25	93.00
12248	40	10	45	50	60	0.5	174.00
12249	40	10	45	50	60	1	330.00
12250	40	10	45	40	70	0.25	100.00
12251	40	10	45	40	70	0.5	195.00
12252	40	10	45	40	70	1	369.00
12253	40	10	45	60	70	0.25	100.00
12254	40	10	45	60	70	0.5	195.00
12255	40	10	45	60	70	1	369.00
12256	80	20	45	20	40	0.25	75.00
12257	80	20	45	20	40	0.5	141.00
12258	80	20	45	20	40	1	264.00
12259	80	20	45	28	40	0.25	75.00
12260	80	20	45	28	40	0.5	141.00
12261	80	20	45	28	40	1	264.00
12262	80	20	45	30	50	0.25	85.00
12263	80	20	45	30	50	0.5	159.00
12264	80	20	45	30	50	1	297.00
12265	80	20	45	40	50	0.25	85.00
12266	80	20	45	40	50	0.5	159.00

Item	Pore size µm	Filter fineness µm	Porosity %	I-Ø mm	O-Ø mm	Unit m	Price EURO
12267	80	20	45	40	50	1	297.00
12268	80	20	45	40	60	0.25	93.00
12269	80	20	45	40	60	0.5	174.00
12270	80	20	45	40	60	1	330.00
12271	80	20	45	50	60	0.25	93.00
12272	80	20	45	50	60	0.5	174.00
12273	80	20	45	50	60	1	330.00
12274	80	20	45	40	70	0.25	100.00
12275	80	20	45	40	70	0.5	195.00
12276	80	20	45	40	70	1	369.00
12277	80	20	45	60	70	0.25	100.00
12278	80	20	45	60	70	0.5	195.00
12279	80	20	45	60	70	1	369.00

THOMAPOR®-Sintered Pipe made of Porous HDPE

Technical specification

- **Material:** low pressure polyethylene (HDPE) of high density
- **Design:** seamless and hydrophobic

Item	Pore size µm	Inside Ø mm	Outside Ø mm	Length mm	Price EURO
52200	35	12.7	19	500	78.00
52201	60	12.7	19	500	78.00
52202	100	12.7	19	500	78.00
52203	250	12.7	19	500	78.00
52204	35	12.7	25.4	500	94.00
52205	60	12.7	25.4	500	94.00
52206	100	12.7	25.4	500	94.00
52207	250	12.7	25.4	500	94.00
52208	35	25.4	38	500	109.00
52209	60	25.4	38	500	109.00
52210	100	25.4	38	500	109.00
52211	250	25.4	38	500	109.00
52212	35	28.6	35	500	102.00
52213	60	28.6	35	500	102.00
52214	100	28.6	35	500	102.00
52215	250	28.6	35	500	102.00
52216	35	39.6	52.4	500	121.00
52217	60	39.6	52.4	500	121.00
52218	100	39.6	52.4	500	121.00
52219	250	39.6	52.4	500	121.00
52220	35	57.2	70	500	140.00
52221	60	57.2	70	500	140.00
52222	100	57.2	70	500	140.00
52223	250	57.2	70	500	140.00
52224	35	66.4	76	500	148.00
52225	60	66.4	76	500	148.00
52226	100	66.4	76	500	148.00
52227	250	66.4	76	500	148.00

THOMAPOR®-Sintered Solid Rod made of Porous UHMW-PE

Technical specification

- **Material:** polyethylene of ultrahigh molecular weight UHMW-PE
- **Design:** solid rods, hydrophobic

Item	Pore size µm	Outside Ø mm	Length mm	Price EURO
52466	10	3.2	300	80.00
52467	20	3.2	300	85.00
52468	10	6.4	300	87.00
52469	20	6.4	300	93.00
52470	10	12.7	300	100.00
52471	20	12.7	300	105.00

THOMAPOR®-Sintered Solid Rod made of Porous HDPE

Technical specification

- **Material:** low pressure polyethylene (HDPE) of high density
- **Design:** solid rods, hydrophobic

Item	Pore size µm	Outside Ø mm	Length mm	Price EURO
52341	35	3.2	300	54.00
52342	70	3.2	300	54.00
52343	120	3.2	300	54.00
52344	35	6.4	300	61.00
52345	70	6.4	300	61.00
52346	120	6.4	300	61.00
52347	35	12.7	300	73.00
52348	70	12.7	300	73.00
52349	120	12.7	300	73.00

THOMAPOR®-Porous Sintered Material made of PTFE

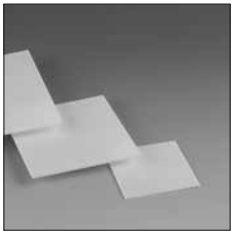
Application area

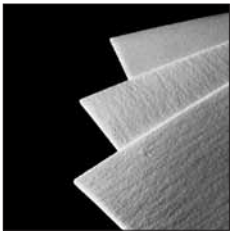
- Filtration of gases and fluids
- As gas feeding and distribution system (gassing)
- THOMAPOR®-PTFE sintered elements are used for filtration of highly aggressive vapors, gases and fluids at highest temperatures up to +240 °C. The elements are easy to clean after the filtration process even when used with sticky media.
- THOMAPOR®-PTFE sintered elements do not soil when dipped into water containing suspended matter as neither water nor electrolytes are able to enter into the pores. Nevertheless, the gas flow rate is high and of constant intensity.

General product specification

- Porous sintered plastic made of pure high-density polytetrafluoro-ethylene (PTFE). Through a exactly defined and controlled sintering process PTFE granules are fused together so that stable bodies of various shapes form. By granular material selection and choice of process parameters the pore size of the porous THOMAPOR®-sintered elements can be selectively influenced.
- Usable in temperature ranges from -200 to +260 °C
- Universal chemical resistance
- Non-adhesive behavior
- Physiological safety
- Prevents water absorption
- Hydrophobic, non-wettable
- Use as porous false bottom
- As dusting unit
- As pressure-compensating element in apparatus building
- As separator in the electrochemistry
- Use of the porous material structure and its chemical resistance (condensate separation), separation of emulsions, diaphragm in electrodialysis, carrier for fluids.

THOMAPOR®-Sintered Plate made of Porous PTFE





Item	Pore size µm	Thickness[1] mm	Dimensions mm	Price EURO
96242	1	0.5	100 x 100	118.00
301919	1	0.5	300 x 300	258.00
14867	1	1.6	100 x 100	81.00
14868	1	1.6	250 x 250	230.00
96245	1	2	100 x 100	138.00
301932	1	2	300 x 300	302.00
14869	1	3.2	100 x 100	119.00
14870	1	3.2	250 x 250	345.00
14871	1	6.35	100 x 100	214.00
14872	1	6.35	250 x 250	557.00
301914	5	0.5	100 x 100	118.00
301920	5	0.5	300 x 300	258.00
302861	5	1	320 x 320	218.00
301927	5	2	100 x 100	138.00
301933	5	2	300 x 300	302.00
302863	5	3	320 x 320	304.00
301915	10	0.5	100 x 100	118.00
301921	10	0.5	300 x 300	258.00
302864	10	1	320 x 320	218.00
14873	10	1.6	100 x 100	74.00
14874	10	1.6	250 x 250	209.00
96246	10	2	100 x 100	138.00
301934	10	2	300 x 300	302.00
302865	10	2	320 x 320	258.00
302866	10	3	320 x 320	304.00
14875	10	3.2	100 x 100	108.00
14876	10	3.2	250 x 250	313.00
14877	10	6.35	100 x 100	195.00
14878	10	6.35	250 x 250	507.00
301916	20	0.5	100 x 100	118.00
301922	20	0.5	300 x 300	258.00
301928	20	2	100 x 100	138.00
301935	20	2	300 x 300	302.00
14879	25	1.6	100 x 100	74.00
14880	25	1.6	250 x 250	209.00
14881	25	3.2	100 x 100	108.00
14882	25	3.2	250 x 250	313.00
14883	25	6.35	100 x 100	195.00
14884	25	6.35	250 x 250	507.00
301917	30	0.5	100 x 100	118.00
301923	30	0.5	300 x 300	258.00
301929	30	2	100 x 100	138.00
301936	30	2	300 x 300	302.00
96247	40	2	100 x 100	138.00
301937	40	2	300 x 300	302.00
96243	50	0.5	100 x 100	118.00
301924	50	0.5	300 x 300	258.00
96244	60	0.5	100 x 100	118.00
301925	60	0.5	300 x 300	258.00
301930	60	2	100 x 100	138.00
301938	60	2	300 x 300	302.00
301918	100	0.5	100 x 100	118.00
301926	100	0.5	300 x 300	258.00
301931	100	2	100 x 100	138.00
301939	100	2	300 x 300	302.00

[1] Tolerance ±0.05 mm

THOMAPOR®-Sintered Disk made of Porous PTFE

Technical specification

- **Material:** PTFE (polytetrafluoroethylene), microporous
- **Temperature range:** -200 to +250 °C
- **Sterilization:** autoclavable (+121 °C)

Item	Outside Ø mm	Pore size µm	Thickness mm	Unit piece	Price EURO
302832	13	5	1	5	55.00
302833	13	5	2	5	75.00
302834	13	5	3	5	98.00
302835	13	10	1	5	55.00
14851	13	10	1.6	2	68.00
302836	13	10	2	5	75.00
302837	13	10	3	5	98.00
14852	13	10	3.2	2	116.00
14859	13	25	1.6	2	68.00
14860	13	25	3.2	2	116.00
302838	25	5	1	5	112.00
302839	25	5	2	5	156.00
302840	25	5	3	5	198.00
302841	25	10	1	5	112.00
14853	25	10	1.6	2	198.00
302842	25	10	2	5	156.00
302843	25	10	3	5	198.00
14854	25	10	3.2	1	186.00
14861	25	25	1.6	2	198.00
14862	25	25	3.2	1	186.00
302844	47	5	1	5	222.00
302845	47	5	2	5	320.00
302846	47	5	3	5	444.00
302847	47	10	1	5	222.00
14855	47	10	1.6	2	200.00
302848	47	10	2	5	320.00
302849	47	10	3	5	444.00
14856	47	10	3.2	1	172.00
14863	47	25	1.6	2	200.00
14864	47	25	3.2	1	172.00
14857	50	10	1.6	1	111.00
14858	50	10	3.2	1	200.00
14865	50	25	1.6	1	111.00
14866	50	25	3.2	1	200.00
302850	90	5	1	3	286.00
302851	90	5	2	3	376.00
302852	90	5	3	3	474.00
302853	90	10	1	3	286.00
302854	90	10	2	3	376.00
302855	90	10	3	3	474.00

THOMAPOR®-Sintered Pipe made of Porous PTFE

Item	Pore size µm	Inside Ø mm	Outside Ø mm	Length mm	Price EURO
14885	1	12.6	19	460	222.00
14886	1	12.6	25.4	460	288.00
14887	1	25.2	38	460	308.00
14888	1	39.6	52.4	460	329.00
14889	1	57.2	70	460	351.00
14890	1	66.4	76	460	395.00
14891	10	12.6	19	460	203.00
14892	10	12.6	25.4	460	261.00
14893	10	25.2	38	460	281.00
14894	10	39.6	52.4	460	299.00
14895	10	57.2	70	460	320.00
14896	10	66.4	76	460	359.00
14897	25	12.6	19	460	203.00
14898	25	12.6	25.4	460	261.00
14899	25	25.2	38	460	281.00
14900	25	39.6	52.4	460	299.00
14901	25	57.2	70	460	320.00
14902	25	66.4	76	460	359.00

THOMAPOR®-Sintered Rod made of Microporous PTFE

Item	Pore size µm	Outside Ø mm	Length mm	Unit piece	Price EURO
302875	5	28	100	1	56.00
302876	5	32	120	1	92.00
302877	5	40	120	1	118.00
302878	5	50	140	1	172.00
302879	10	28	100	1	56.00
302880	10	32	120	1	92.00
302881	10	40	120	1	118.00
302882	10	50	140	1	172.00
302883	50	28	100	1	56.00
302884	50	32	120	1	92.00
302885	50	40	120	1	118.00
302886	50	50	140	1	172.00

THOMAPOR®-Sintered Rod (rectangular) made of Porous PTFE

Item	Width mm	Height mm	Pore size µm	Length mm	Price EURO
14903	3.2	3.2	1	300	90.00
14904	6.4	6.4	1	300	143.00
14905	12.7	12.7	1	300	216.00
14906	3.2	3.2	10	300	82.00

Item	Width mm	Height mm	Pore size µm	Length mm	Price EURO
14907	6.4	6.4	10	300	129.00
14908	12.7	12.7	10	300	197.00
14909	3.2	3.2	25	300	82.00
14910	6.4	6.4	25	300	129.00
14911	12.7	12.7	25	300	197.00

THOMAPOR®-Sinter Plate on Cr-Ni-Steel Base (highly porous)

Application area

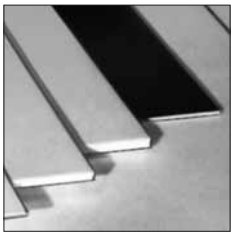
- Gas filtration, fluid filtration, clarification and separation filtration, high pressure filtration, solvent separation, filtration of polyamides, polyesters and acetates before extrusion moulding of fibres and films

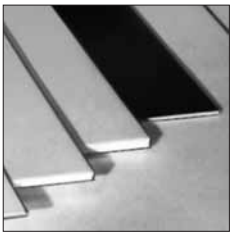
Product specification

- **Cleaning of dirty sinter plates:** In simple cases the THOMAPOR®-sinter metal plates SR are cleaned in the countercurrent with a clean fluid or with clean gas according to the intended use of the filter. This method is always sufficient when all contaminations are retained at the surface of the filter element and no particles are lodged in the pore space.
- Additionally, slight brushing with a soft nylon brush helps. If soiling particles are lodged in the filter and cleaning in the countercurrent is not sufficient, solvents can be used. Duration of cleaning and temperature can be varied depending on the degree of soiling. Use of acids or alkalis of high concentration and at high temperatures is not recommended. Neutralization with hot water should be done in any case.
- THOMAPOR®-highly porous sinter metal plates SR comply with the directions of the German Food Law. Due to their very low carbon content they are highly resistant to intercristalline corrosion.

Technical specification

- **Material:** chromium-nickel-steel, based on material 1.4404
- **Operating temperature:**
  in oxidizing atmosphere: +500 °C
  in reducing atmosphere: +650 °C



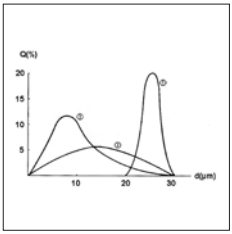


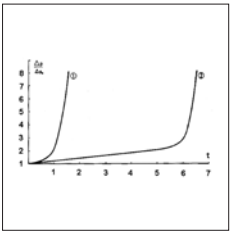
Item	Pore size µm	Porosity %	Density g/cm³	Thick-ness mm	Dimensions mm	Price EURO
52943	2.8	30 - 35	5.2 - 5.6	3	125 x 125	167.00
52944	2.8	30 - 35	5.2 - 5.6	5	125 x 125	210.00
52945	2.8	30 - 35	5.2 - 5.6	8	125 x 125	261.00
52946	2.8	30 - 35	5.2 - 5.6	10	125 x 125	356.00
52947	4	32 - 37	5.0 - 5.4	3	125 x 125	167.00
52948	4	32 - 37	5.0 - 5.4	5	125 x 125	210.00
52949	4	32 - 37	5.0 - 5.4	8	125 x 125	261.00
52950	4	32 - 37	5.0 - 5.4	10	125 x 125	356.00
52951	6	33 - 38	4.9 - 5.3	3	125 x 125	167.00
52952	6	33 - 38	4.9 - 5.3	5	125 x 125	210.00
52953	6	33 - 38	4.9 - 5.3	8	125 x 125	261.00
52954	6	33 - 38	4.9 - 5.3	10	125 x 125	356.00
52955	8	36 - 41	4.7 - 5.1	3	125 x 125	167.00
52956	8	36 - 41	4.7 - 5.1	5	125 x 125	210.00
52957	8	36 - 41	4.7 - 5.1	8	125 x 125	261.00
52958	8	36 - 41	4.7 - 5.1	10	125 x 125	356.00
52959	13	37 - 42	4.6 - 5.0	3	125 x 125	167.00
52960	13	37 - 42	4.6 - 5.0	5	125 x 125	210.00
52961	13	37 - 42	4.6 - 5.0	8	125 x 125	261.00
52962	13	37 - 42	4.6 - 5.0	10	125 x 125	356.00
52963	20	38 - 43	4.5 - 4.9	3	125 x 125	167.00
52964	20	38 - 43	4.5 - 4.9	5	125 x 125	210.00
52965	20	38 - 43	4.5 - 4.9	8	125 x 125	261.00
52966	20	38 - 43	4.5 - 4.9	10	125 x 125	356.00
52967	25	39 - 44	4.4 - 4.8	3	125 x 125	167.00
52968	25	39 - 44	4.4 - 4.8	5	125 x 125	210.00
52969	25	39 - 44	4.4 - 4.8	8	125 x 125	261.00
52970	25	39 - 44	4.4 - 4.8	10	125 x 125	356.00
52971	32	40 - 45	4.3 - 4.7	3	125 x 125	167.00
52972	32	40 - 45	4.3 - 4.7	5	125 x 125	210.00
52973	32	4,3 - 4,7	4.3 - 4.7	8	125 x 125	261.00
52974	32	4,3 - 4,7	4.3 - 4.7	10	125 x 125	356.00
52910	2.8	30 - 35	5.2 - 5.6	3	250 x 250	491.00
52911	2.8	30 - 35	5.2 - 5.6	5	250 x 250	563.00
52913	2.8	30 - 35	5.2 - 5.6	8	250 x 250	696.00
52914	2.8	30 - 35	5.2 - 5.6	10	250 x 250	1,038.00
52915	4	32 - 37	5.0 - 5.4	3	250 x 250	491.00
52916	4	32 - 37	5.0 - 5.4	5	250 x 250	563.00
52917	4	32 - 37	5.0 - 5.4	8	250 x 250	696.00
52918	4	32 - 37	5.0 - 5.4	10	250 x 250	1,038.00
52919	6	33 - 38	4.9 - 5.3	3	250 x 250	491.00
52920	6	33 - 38	4.9 - 5.3	5	250 x 250	563.00
52921	6	33 - 38	4.9 - 5.3	8	250 x 250	696.00
52922	6	33 - 38	4.9 - 5.3	10	250 x 250	1,038.00
52923	8	36 - 41	4.7 - 5.1	3	250 x 250	491.00
52924	8	36 - 41	4.7 - 5.1	5	250 x 250	563.00
52925	8	36 - 41	4.7 - 5.1	8	250 x 250	696.00
52926	8	36 - 41	4.7 - 5.1	10	250 x 250	1,038.00
52927	13	37 - 42	4.6 - 5.0	3	250 x 250	491.00
52928	13	37 - 42	4.6 - 5.0	5	250 x 250	563.00
52929	13	37 - 42	4.6 - 5.0	8	250 x 250	696.00
52930	13	37 - 42	4.6 - 5.0	10	250 x 250	1,038.00
52931	20	38 - 43	4.5 - 4.9	3	250 x 250	491.00
52932	20	38 - 43	4.5 - 4.9	5	250 x 250	563.00
52933	20	38 - 43	4.5 - 4.9	8	250 x 250	696.00
52934	20	38 - 43	4.5 - 4.9	10	250 x 250	1,038.00
52935	25	39 - 44	4.4 - 4.8	3	250 x 250	491.00
52936	25	39 - 44	4.4 - 4.8	5	250 x 250	563.00
52937	25	39 - 44	4.4 - 4.8	8	250 x 250	696.00
52938	25	39 - 44	4.4 - 4.8	10	250 x 250	1,038.00
52939	32	40 - 45	4.3 - 4.7	3	250 x 250	491.00
52940	32	40 - 45	4.3 - 4.7	5	250 x 250	563.00
52941	32	40 - 45	4.3 - 4.7	8	250 x 250	696.00
52942	32	40 - 45	4.3 - 4.7	10	250 x 250	1,038.00

THOMAPOR®-Non-Woven Fabric Filter made of Sinter Metal Fibres

Product specification

- Very small pore size with high flow rate and high uptake capacity for dirt particles at the same time.
- The filtration characteristic is depicted by retention of smallest particles (dirt particles).
- High pressure loadability with material stability in one. Even under extreme load no fibre release occurs.
- Repeated sterilization at highest temperatures allowed.
- Permissive temperature load up to max. +500 °C.
- The non-woven filter can be cutted, plied and welded without problems.
- High corrosion resistance, made of high-quality steel 1.4404
- Dimensions: 147.5 x 187.5 mm





Item	Filter fineness µm	Bubble Point mbar	Max. flow rate gases[1] l/min.	Dirt pick-up mg/cm²	Thick-ness mm	Price EURO
52763	10	37	125	2	0.13	107.00
52764	20	18.5	400	2	0.13	117.00
52765	30	12.3	800	2	0.13	127.00
52766	10	37	108	3.7	0.38	131.00
52767	15	24.7	180	6	0.38	148.00
52770	40	9.3	620	11	0.65	204.00

[1] Air (l/min. x dm² at 2 mbar)

Round Filters and Membranes

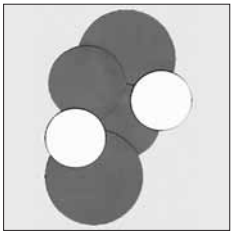
THOMAPOR®-Membrane made of Cellulose Acetate

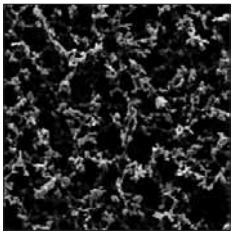
Application area

- Process filtration
- Sterile filtration in pharmacy
- Clarification in pharmacy
- Determination of residues in used mineral oils and hot gases
- For sterility testing in radiochemical investigations

Product specification

- Resistant to dry heat up to +180 °C, to short chain alcohols as well as to oily solutions. Cellulose acetate membranes are extremely dimensionally stable in aqueous solutions and have a very low binding capacity particularly for proteins. The amount of extractable components is below 2 % by weight.





Item	Outside Ø mm	Pore size µm	Unit piece	Price EURO
53348	13	1.2	100	104.00
53350	13	0.45	100	104.00
53351	13	0.2	100	104.00
53358	25	1.2	100	130.00
53360	25	0.45	100	130.00
53361	25	0.2	100	130.00
53363	47	1.2	100	169.00
53365	47	0.45	100	169.00
53366	47	0.2	100	169.00
53370	50	1.2	100	182.00
53372	50	0.45	100	182.00
53373	50	0.2	100	182.00

THOMAPOR®-Membrane made of Cellulose Nitrate

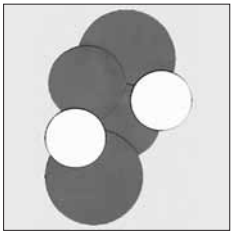
Application area

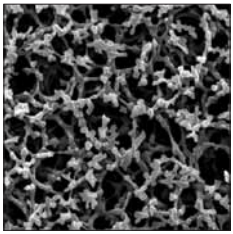
- Microbiology, transfer and blotting technology, ELISAs and RIAs

Product specification

Dry filter made of biologically inert 100 % pure cellulose nitrate; of good wettability and high flexibility. Amount of extractable components approx. 1.5 % by weight.

- **R1:** Prefiltration, dust counting technique, separation of cells from viscous media, separation of yeast and fibres
- **R2:** Protein testing, transfer media for DNA/RNA
- **R3:** Production of ultrapure fluids, concentration and separation of phages and viruses, use in microbiological investigations.





Item	Type	Outside Ø mm	Pore size µm	Unit piece	Price EURO
53047	R1	25	8	100	143.00
53048	R1	25	5	100	143.00
53053	R2	25	0.45	100	130.00
53060	R1	47	12	100	195.00
53061	R1	47	8	100	195.00
53062	R1	47	5	100	195.00
53067	R2	47	0.45	100	182.00

Item	Type	Outside Ø mm	Pore size µm	Unit piece	Price EURO
53071	R3	47	0.1	100	182.00
53076	R2	50	12	100	221.00
53077	R1	50	8	100	221.00
53078	R1	50	5	100	221.00
53083	R2	50	0.45	100	195.00

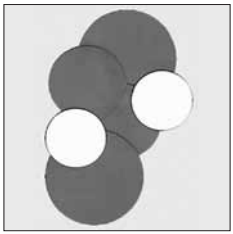
THOMAPOR®-Membrane made of Regenerated Cellulose

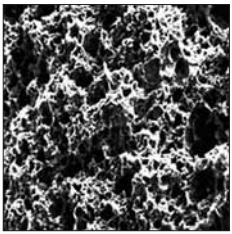
Application area

- They meet highest requirements in pharmaceutical applications
- For purification of organic solvents, photoresists and concentrated short-chain alcohols as well as in water chemistry and in dust counting technique

Product specification

- Inserted in filtering apparatuses the membrane can be steamed or sterilized with hot air at +180 °C. The filter type R6 can be autoclaved at +136 °C without problems. The filter is flexible, dimensionally stable and of remarkable wet strength. The membrane is resistant to organic solvents to a high degree.





Item	Outside Ø mm	Pore size µm	Unit piece	Price EURO
53440	13	0.45	100	156.00
53441	13	0.2	100	156.00
53443	25	1	100	195.00
53445	25	0.45	100	195.00
53446	25	0.2	100	195.00
53450	47	0.45	100	247.00
53451	47	0.2	100	247.00
53455	50	1	100	260.00
53456	50	0.6	100	260.00
53457	50	0.45	100	260.00
53458	50	0.2	100	260.00

THOMAPOR®-Round Filter made of PES

Application area

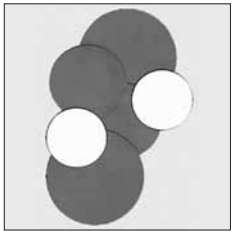
- Prefiltration and clarification of aqueous solutions
- Particle and aerosol filtration of gases in the areas of bio- and food processing technology, chemical and physical laboratory engineering, environmental technology and chemical nuclear technology

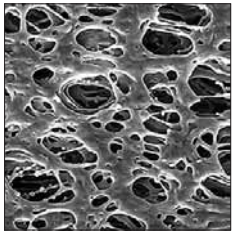
Product specification

- Hydrophilic filter made of chemically inert, high-strength polymer material with regular pore structure for high flow rates; biocompatible, certified according to USP Class VI „Plastics Test“, sterilizable by autoclaving.

Technical specification

- **Material:** PES (polyether sulfone)
- **Thickness:** approx. 150 µm
- **Max. temperature:** +100 °C
- **Sterilization:** autoclavable (+121 °C)





Item	Outside Ø mm	Pore size µm	Max. flow rate gases[1] l/min.	Max. flow rate liquids[2] ml/min.	Unit piece	Price EURO
15163	13	0.1	1	5	25	40.00
15164	25	0.1	1	5	25	40.00
15165	37	0.1	1	5	25	60.00
15166	47	0.1	1	5	25	60.00
15167	50	0.1	1	5	25	65.00
15168	90	0.1	1	5	25	150.00
15169	142	0.1	1	5	25	275.00
15171	13	0.2	3	22	25	40.00
15172	25	0.2	3	22	25	40.00
15173	37	0.2	3	22	25	60.00
15174	47	0.2	3	22	25	60.00
15175	50	0.2	3	22	25	65.00
15176	90	0.2	3	22	25	150.00
15177	142	0.2	3	22	25	275.00
15182	47	0.45	5	44	25	60.00
15195	13	1.2	13	700	25	40.00
15196	25	1.2	13	700	25	40.00
15197	37	1.2	13	700	25	60.00
15198	47	1.2	13	700	25	60.00
15199	50	1.2	13	700	25	65.00
15200	90	1.2	13	700	25	150.00
15201	142	1.2	13	700	25	275.00

[1] Air (l/min. x cm^2 at 0.7 bar) [2] Water (ml/min. x cm^2 at 0.7 bar)

THOMAPOR®-Round Filter made of PSU

Application area

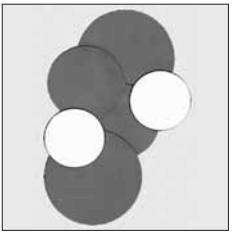
- Prefiltration and clarification of bioactive solutions as well as sterile filtration of solutions and gases

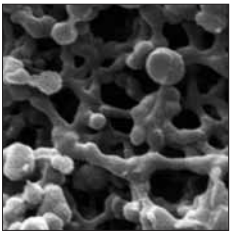
Product specification

- Biocompatible, hydrophilic round filter made of chemically inert, high-strength high-tech polymer material with regular pore structure for high flow rates, very low protein binding, temperature-loadable, sterilizable by autoclaving at +121 °C.

Technical specification

- **Material:** PSU (polyether sulfone)
- **Thickness:** approx. 165 µm
- **Max. temperature:** +115 °C
- **Sterilization:** autoclavable (+121 °C)





Item	Outside Ø mm	Pore size µm	Max. flow rate gases[1] l/min.	Max. flow rate liquids[2] ml/min.	Unit piece	Price EURO
15203	13	0.2	3	10	25	40.00
15204	25	0.2	3	10	25	45.00
15205	37	0.2	3	10	25	55.00
15206	47	0.2	3	10	25	60.00
15207	50	0.2	3	10	25	60.00
15208	90	0.2	3	10	25	165.00
15209	142	0.2	3	10	25	250.00
15211	13	0.45	7	50	25	40.00
15212	25	0.45	7	50	25	45.00
15213	37	0.45	7	50	25	55.00
15214	47	0.45	7	50	25	60.00
15215	50	0.45	7	50	25	60.00
15216	90	0.45	7	50	25	165.00
15217	142	0.45	7	50	25	250.00

[1] Air (l/min. x cm^2 at 0.7 bar) [2] Water (ml/min. x cm^2 at 0.7 bar)

THOMAPOR®-Round Filter made of Acrylic Polymer for Fluids

Application area

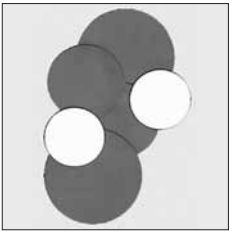
- Clarification and fine filtration of aqueous solutions in the areas of biology and environment.

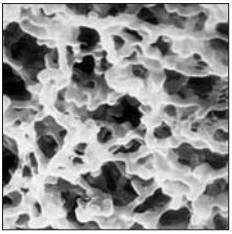
Product specification

- Hydrophobic round filter based on polymer fibres with pore sizes between 0.2 and 10 µm, non-woven support body; biocompatible, certified according to USP Class VI-121 „Plastic Tests“, good chemical resistance, not autoclavable.

Technical specification

- **Material:** repellent acrylic copolymer fibre
- **Thickness:** 65 - 130 µm
- **Max. temperature:** +88 °C
- **Sterilization:** gas (formalin, ethylene oxide)





Item	Outside Ø mm	Pore size µm	Max. flow rate gases[1] l/min.	Bubble Point bar	Unit piece	Price EURO
15067[2]	13	0.8	40	0.6	25	40.00
15068[2]	25	0.8	40	0.6	25	50.00
15069[2]	37	0.8	40	0.6	25	65.00
15070[2]	47	0.8	40	0.6	25	65.00
15071[2]	50	0.8	40	0.6	25	70.00
15072[2]	90	0.8	40	0.6	25	170.00
15073[2]	142	0.8	40	0.6	25	290.00
15075[3]	13	1.2	25	0.4	25	40.00
15076[3]	25	1.2	25	0.4	25	50.00
15077[3]	37	1.2	25	0.4	25	65.00
15078[3]	47	1.2	25	0.4	25	65.00
15079[3]	50	1.2	25	0.4	25	70.00
15080[3]	90	1.2	25	0.4	25	170.00
15081[3]	142	1.2	25	0.4	25	290.00
15086[3]	47	3	55	0.2	25	65.00

[1] Air (l/min./3.7 cm^2) [2] Flow rate at 0.93 bar [3] Flow rate at 0.34 bar [4] Flow rate at 0.29 bar

THOMAPOR®-Round Filter made of Glass Fibre

Application area

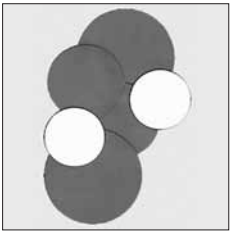
- In the areas of bio- and food processing technology, chemical and physical laboratory engineering, environmental technology and chemical nuclear technology

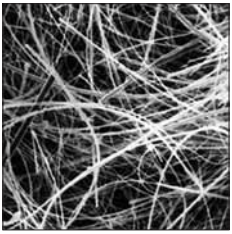
Product specification

- Prefiltration and clarification of hot or aggressive solutions
- Particle and aerosol filtration of gases
- Chemically and physically highly resistant, binderless 1 µm glass fibre round filter for high flow rates, with good wet stability and high retention capacity, sterilizable with all methods.

Technical specification

- **Material:** borosilicate fibre
- **Thickness:** approx. 450 µm
- **Retention capacity for aerosols:** >99.97 %
- **Measuring conditions:** Filter area 100 cm^2; nominal particle size 0.3 µm; air throughput: approx. 30 l/min.





Item	Outside Ø mm	Max. flow rate gases[1] l/min.	Max. flow rate liquids[2] ml/min.	Unit piece	Price EURO
15043	13	50	500	100	50.00
15044	25	50	500	100	60.00
15045	37	50	500	100	70.00
15046	47	50	500	100	80.00

Item	Outside Ø mm	Max. flow rate gases[1] l/min.	Max. flow rate liquids[2] ml/min.	Unit piece	Price EURO
15047	50	50	500	100	80.00
15048	90	50	500	50	190.00
15049	142	50	500	25	170.00

[1] Air (l/min. x cm^2 at 0.7 bar) [2] Water (ml/min. x cm^2 at 0.7 bar)

THOMAPOR®-Capillary Pore Membrane made of Polycarbonate

Application area

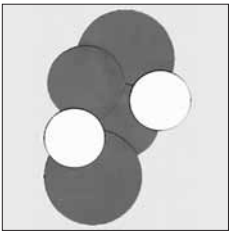
- Polycarbonate membranes are recommended for microscopic, chemotactic and cytological studies as well as aerosol filtration and subsequent analysis by X-ray fluorescence spectroscopy.
  12.0 and 10.0 µm: general purification, prefiltration, purification and preliminary filtration of caustic fluids such as photoresist, concentrated acids, ester solutions
  8.0 µm: as 12.0 µm: microfiltration of alcohols, of chemicals used as reagents
  5.0 µm: in cytology, chemotaxis, and gravimetric analysis
  3.0 µm: general microfiltration and purification; cytological evaluation of cerebrospinal fluids, chemotaxis, microfiltration of caustic fluids
  2.0 µm: chemotaxis
  1.0 µm: beer stabilization, prefiltration of serum, ultrapurification of fluids, ultrapurifications of caustic fluids, microfiltration of alcoholic solutions
  0.8 µm: aerosol analysis, gravimetric analysis, wine stabilization, microscopic analysis of aerosols, yeasts and mould fungi
  0.6 µm: biological determination of cells, wine and milk, plasmapheresis, particle analysis in caustic fluids
  0.4 µm: biological determination of fluids, collection of asbestos fibres, dehydration and purification of cellular suspensions, immunology, particle analysis of caustic fluids, analysis of yeast, mould fungi and silicon oxide (silica)
  0.2 µm: general sterile filtration, immunology, sterile filtration of caustic fluids
  0.1 and 0.08 µm: virus filtration
  0.05; **0.03 and 0.015 µm:** virus and protein filtration

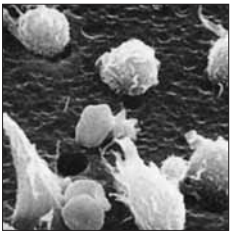
Product specification

- Membranes can stand permanent temperatures of +140 °C (air or steam) for an indefinite time allowing repeated autoclaving. Polyester membranes are hydrophilic with chemical resistance similar to PTFE. Polyester membranes are recommended for filtration of HPLC solutions and samples which are to be analyzed by HPLC.

Technical specification

- **Thickness:** 5 - 10 µm
- **Bursting pressure:** >10 bar
- **Weight (tare):** 1.0 mg/cm^2
- **Density:** 1.2 g/cm^3
- **Temperature range for heat-sealing:** +230 to +275 °C
- **Max. temperature:** +140 °C
- **Ash weight:** 0.92 µg/cm^2
- **Porosity:** 5 - 10 %
- **Number density of pores:** 10^5 - 6 x 10^8 pores/cm^2
- **Surface structure:** flat and smooth
- **Optical properties:** translucent
- **Hydrophilia:** hydrophilic
- **Release of fibres:** none
- **Sterilization:** autoclavable (+121 °C)
- **Water absorption:** 0.24 % by weight
- **Biological compatibility:** inert





Item	Outside Ø mm	Pore size µm	Unit piece	Price EURO
50559	13	10	100	230.00
50578	13	8	100	230.00
50597	13	5	100	230.00
50616	13	3	100	230.00
50635	13	2	100	230.00
50654	13	1	100	230.00
50673	13	0.8	100	230.00
50692	13	0.6	100	230.00
50711	13	0.4	100	180.00
50730	13	0.2	100	180.00
50749	13	0.1	100	310.00
50787	13	0.08	100	370.00
50768	13	0.05	100	320.00
50825	13	0.015	100	490.00
50541	25	12	100	260.00
50560	25	10	100	230.00
50579	25	8	100	230.00
50598	25	5	100	230.00
50617	25	3	100	230.00
50636	25	2	100	230.00
50655	25	1	100	230.00
50674	25	0.8	100	230.00
50693	25	0.6	100	230.00
50712	25	0.4	100	190.00
50731	25	0.2	100	190.00
50750	25	0.1	100	350.00
50788	25	0.08	100	480.00
50769	25	0.05	100	450.00
50807	25	0.03	100	490.00
50826	25	0.015	100	550.00
50542	37	12	100	350.00
50561	37	10	100	350.00
50580	37	8	100	280.00
50599	37	5	100	280.00
50637	37	2	100	280.00
50656	37	1	100	280.00
50675	37	0.8	100	280.00
50713	37	0.4	100	240.00
50751	37	0.1	100	480.00
50789	37	0.08	100	610.00
50770	37	0.05	100	610.00
50808	37	0.03	100	610.00
50827	37	0.015	100	610.00
50543	43	12	100	370.00
50562	43	10	100	370.00
50581	43	8	100	330.00

Item	Outside Ø mm	Pore size µm	Unit piece	Price EURO
50600	43	5	100	330.00
50619	43	3	100	330.00
50638	43	2	100	330.00
50657	43	1	100	330.00
50714	43	0.4	100	300.00
50752	43	0.1	100	590.00
50790	43	0.08	100	710.00
50809	43	0.03	100	710.00
50544	47	12	100	380.00
50563	47	10	100	350.00
50582	47	8	100	330.00
50601	47	5	100	330.00
50620	47	3	100	330.00
50639	47	2	100	330.00
50658	47	1	100	330.00
50677	47	0.8	100	330.00
50696	47	0.6	100	330.00
50715	47	0.4	100	270.00
50734	47	0.2	100	270.00
50753	47	0.1	100	690.00
50791	47	0.08	100	810.00
50772	47	0.05	100	810.00
50810	47	0.03	100	810.00
50545	50	12	100	450.00
50564	50	10	100	440.00
50583	50	8	100	380.00
50602	50	5	100	380.00
50621	50	3	100	380.00
50640	50	2	100	380.00
50659	50	1	100	380.00
50678	50	0.8	100	380.00
50697	50	0.6	100	380.00
50716	50	0.4	100	330.00
50735	50	0.2	100	330.00
50792	50	0.08	100	860.00
50773	50	0.05	100	860.00
50811	50	0.03	100	860.00
50546	76	12	100	650.00
50603	76	5	100	560.00
50698	76	0.6	100	550.00
50793	76	0.08	100	1,150.00
50549	90	12	100	800.00
50587	90	8	100	740.00
50606	90	5	100	740.00
50644	90	2	100	780.00
50663	90	1	100	740.00
50682	90	0.8	100	740.00

THOMAPOR®-High-Chem Polymer Membranes

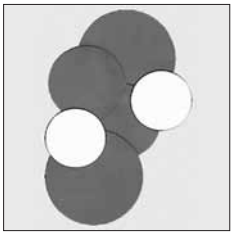
General technical specification

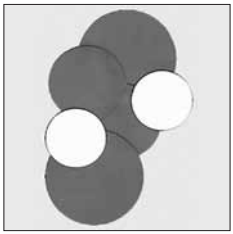
- **Material:** PA (polyamide); PESH (polyether sulfone, hydrophilic) PS (polysulfone); PAEK (polyacryl etherketone)

THOMAPOR®-Polymer Membrane - round blank

Item	Max. op. pressure 1[1] bar	Max. temp. °C	pH range	Max. flow rate liquids[2] l/h
303010	30	50	4 - 11	200
303022	10	70	1 - 13	250

[1] at +20 °C [2] Water (l/h x m² x bar)



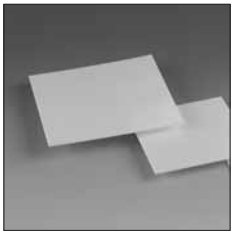


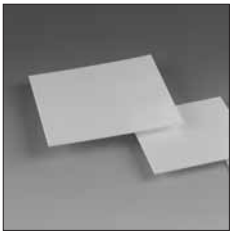
Item	Cut off kDalton	Material	Outside Ø mm	Unit piece	Price EURO
303010	0.2	PA	76	25	194.00
303022	20	PS	76	25	194.00

THOMAPOR®-High-Chem Polymer Membrane - cutting

Item	Max. op. pressure 1[1] bar	Max. temp. °C	pH range	Max. flow rate liquids[2] l/h
302983	100	50	4 - 11	40
302984	100	50	4 - 11	40
302985	50	50	4 - 11	70
302986	50	50	4 - 11	70
302987	30	50	4 - 11	200
302988	30	50	4 - 11	200
302989	25	50	4 - 11	300
302990	25	50	4 - 11	300
302991	15	50	4 - 11	310
302992	15	50	4 - 11	310
302993	10	70	1 - 13	520
302994	10	70	1 - 13	520
302995	10	70	1 - 13	630
302996	10	70	1 - 13	630
302997	10	70	1 - 13	850
302998	10	70	1 - 13	850
302999	10	70	1 - 13	250
303000	10	70	1 - 13	250
303001	10	70	1 - 13	800
303002	10	70	1 - 13	800
303003	10	70	1 - 13	1,200
303004	10	70	1 - 13	1,200

[1] at +20 °C [2] Water (l/h x m² x bar)





Item	Type	Cut off kDalton	Material	Dimensions mm	Price EURO
302983	1	0.05	PA	200 x 300	125.00
302984	1	0.05	PA	450 x 500	335.00
302985	2	0.1	PA	200 x 300	125.00
302986	2	0.1	PA	450 x 500	335.00
302987	3	0.2	PA	200 x 300	125.00
302988	3	0.2	PA	450 x 500	335.00
302989	4	0.5	PA	200 x 300	125.00
302990	4	0.5	PA	450 x 500	335.00
302991	5	2	PA	200 x 300	125.00
302992	5	2	PA	450 x 500	335.00
302993	6	4	PESH	200 x 300	95.00
302994	6	4	PESH	450 x 500	280.00
302995	7	50	PESH	200 x 300	95.00
302996	7	50	PESH	450 x 500	280.00
302997	8	100	PESH	200 x 300	95.00
302998	8	100	PESH	450 x 500	280.00
302999	9	20	PS	225 x 250	95.00
303000	9	20	PS	450 x 500	280.00
303001	10	100	PS	200 x 300	95.00
303002	10	100	PS	450 x 500	280.00
303003	11	100	PAEK	200 x 300	105.00
303004	11	100	PAEK	450 x 500	300.00

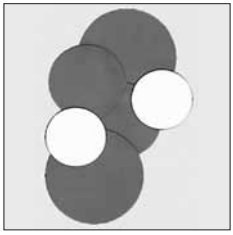
THOMAPOR®-High-Chem Round Filter made of PVDF - hydrophilic

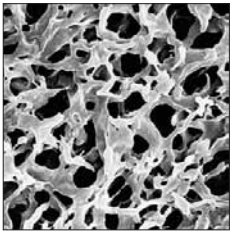
Application area

- Fine filtration and sterile filtration of solutions and gases in areas of analytical chemistry.

Product specification

- Chemically highly resistant, slightly hydrophilic round filter without support body; biocompatible, free of leachable components.





Technical specification

- **Material:** PVDF (polyvinylidene fluoride)
- **Thickness:** approx. 180 µm
- **Pore size:** 0.2 or 0.45 µm
- **Max. temperature:** +100 °C
- **Sterilization:** autoclavable (+121 °C)

Item	Outside Ø mm	Pore size µm	Max. flow rate gases[1] l/min.	Max. flow rate liquids[2] ml/min.	Unit piece	Price EURO
15219	13	0.2	1	3.5	25	55.00
15220	25	0.2	1	3.5	25	60.00
15221	37	0.2	1	3.5	25	75.00
15222	47	0.2	1	3.5	25	85.00
15223	50	0.2	1	3.5	25	90.00
15224	90	0.2	1	3.5	25	215.00
15225	142	0.2	1	3.5	25	290.00
15227	13	0.45	2	13.2	25	55.00
15228	25	0.45	2	13.2	25	60.00
15229	37	0.45	2	13.2	25	75.00
15230	47	0.45	2	13.2	25	85.00
15231	50	0.45	2	13.2	25	90.00
15232	90	0.45	2	13.2	25	215.00
15233	142	0.45	2	13.2	25	290.00

[1] Air (l/min. x cm^2 at 0.7 bar) [2] Water (ml/min. x cm^2 at 0.7 bar)

THOMAPOR®-High-Chem Round Filter made of PVDF - hydrophobic

Application area

- Fine filtration of solvents and gases in areas of analytical chemistry and laboratory engineering.

Product specification

- Chemically highly resistant, hydrophobic round filter without support body; biocompatible, free of leachable components.

Technical specification

- **Material:** PVDF (polyvinylidene fluoride)
- **Thickness:** approx. 180 µm
- **Pore size:** 0.45 µm

Item	Outside Ø mm	Pore size µm	Max. flow rate gases[1] l/min.	Unit piece	Price EURO
15235	13	0.45	2	25	75.00
15236	25	0.45	2	25	85.00
15237	37	0.45	2	25	95.00
15238	47	0.45	2	25	100.00
15239	50	0.45	2	25	105.00
15240	90	0.45	2	25	290.00
15241	142	0.45	2	25	570.00

[1] Air (l/min. x cm^2 at 0.7 bar)

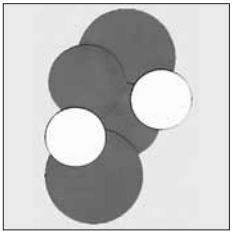
THOMAPOR®-High-Chem Round Filter made of PTFE - sintered

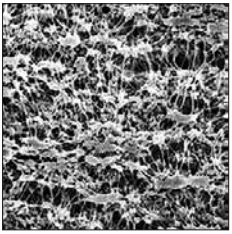
Application area

- For all laboratory applications requiring unlaminated and stable membranes.
- Can be used as air filter, gas filter and liquid filter

Product specification
- Hydrophobic
- High pore volume
- Outstandingly chemical-resistant and stable to solvents
- High thermal resistance
- Mechanically stable
- Self-sealing, when clamped between flanges
- Biocompatible and rotting-resistant
- Weldable, self-cleaning and non-inflammable

Technical specification
- **Material:** sliced polytetrafluoroethylene (PTFE)
- **Thickness:** depending on type 100 to 250 µm
- **Pore volume:** >40 %
- **Temperature range:** -260 to +260 °C
- **Sterilization:** by autoclaving





Item	Outside Ø	Pore size	Thickness	Max. flow rate gases	Max. flow rate liquids[1]	Unit	Price
	mm	µm	µm	l/h	ml/min.	piece	EURO
15310	13	1 - 2	254	19	100	25	75.00
15311	25	1 - 2	254	19	100	25	85.00
15312	37	1 - 2	254	19	100	25	95.00
15313	47	1 - 2	254	19	100	25	105.00
15314	50	1 - 2	254	19	100	25	110.00
15315	54	1 - 2	254	19	100	25	110.00
15316	90	1 - 2	254	19	100	25	255.00
15317	142	1 - 2	254	19	100	25	510.00
15302	13	4 - 5	152	112	224	25	75.00
15303	25	4 - 5	152	112	224	25	85.00
15304	37	4 - 5	152	112	224	25	95.00
15305	47	4 - 5	152	112	224	25	105.00
15306	50	4 - 5	152	112	224	25	110.00
15307	54	4 - 5	152	112	224	25	110.00
15308	90	4 - 5	152	112	224	25	255.00
15309	142	4 - 5	152	112	224	25	510.00
15294	13	5 - 6	100	140	300	25	75.00
15295	25	5 - 6	100	140	300	25	85.00
15296	37	5 - 6	100	140	300	25	95.00
15297	47	5 - 6	100	140	300	25	105.00
15298	50	5 - 6	100	140	300	25	110.00
15299	54	5 - 6	100	140	300	25	110.00
15300	90	5 - 6	100	140	300	25	255.00
15301	142	5 - 6	100	140	300	25	510.00
15288	47	10 - 20	100	180	430	25	105.00

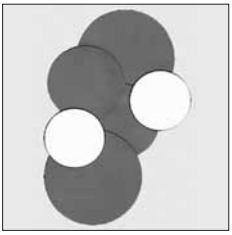
[1] Water (ml/min. x cm² at 0.9 bar) [2] for ethanol

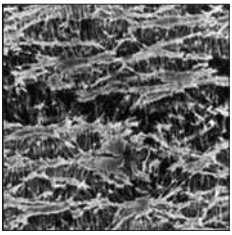
THOMAPOR®-High-Chem Round Filter made of PTFE - drawn

Application area
- Fine filtration of chemically aggressive media and solvents, also halogen-containing solvents
- Sterile filtration, purification of gases

Product specification
- Hydrophobic
- Outstandingly chemical-resistant and stable to solvents
- Regular pore size and narrow-ranged pore size distribution
- Strong, flexible and great thermal resistance
- Universally applicable, non-inflammable and self-sealing
- Inert to fungal and bacterial growth
- Weldable

Technical specification
- **Material:** drawn polytetrafluoroethylene (PTFE)
- **Colour:** white, smooth surface
- **Thickness:** depending on type 60 to 100 µm
- **Pore size:** 0.1; 0.2; 0.65; 0.8; 1.2 or 5 µm
- **Temperature range:** -260 to +250 °C
- **Melting point:** +327 °C
- **Sterilization:** autoclavable (+121 °C)
- **Tensile strength:** 250 - 350 kg/cm²
- **Stretchability:** 200 - 400 %





Item	Outside Ø	Pore size	Thickness	Max. flow rate gases[1]	Max. flow rate liquids[2]	Unit	Price
	mm	µm	µm	l/min.	ml/min.	piece	EURO
15326	13	0.1	60	1.5	32	25	105.00
15327	25	0.1	60	1.5	32	25	120.00
15328	37	0.1	60	1.5	32	25	140.00
15329	47	0.1	60	1.5	32	25	155.00
15330	50	0.1	60	1.5	32	25	155.00
15331	90	0.1	60	1.5	32	25	400.00
15332	142	0.1	60	1.5	32	25	805.00
15335	25	0.2	60	2.8	65	25	120.00
15350	13	0.65	80	9	190	25	105.00
15351	25	0.65	80	9	190	25	120.00
15352	37	0.65	80	9	190	25	140.00
15353	47	0.65	80	9	190	25	155.00
15354	50	0.65	80	9	190	25	155.00
15355	90	0.65	80	9	190	25	400.00
15356	142	0.65	80	9	190	25	805.00
15361	47	0.8	100	12	270	25	155.00
15366	13	1	100	13	450	25	105.00
15367	25	1	100	13	450	25	120.00
15368	37	1	100	13	450	25	140.00

Item	Outside Ø mm	Pore size µm	Thickness µm	Max. flow rate gases[1] l/min.	Max. flow rate liquids[2] ml/min.	Unit piece	Price EURO
15369	47	1	100	13	450	25	155.00
15370	50	1	100	13	450	25	155.00
15371	90	1	100	13	450	25	400.00
15372	142	1	100	13	450	25	805.00
15374	13	5	100	30	1,300	25	105.00
15375	25	5	100	30	1,300	25	120.00
15376	37	5	100	30	1,300	25	140.00
15377	47	5	100	30	1,300	25	155.00
15378	50	5	100	30	1,300	25	155.00
15380	90	5	100	30	1,300	25	400.00
15381	142	5	100	30	1,300	25	805.00

[1] Air (l/min. x cm² at 0.9 bar) [2] Aceton (ml/min. x cm² at 0.9 bar)

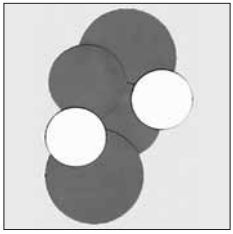
THOMAPOR®-High-Chem Round Filter made of PTFE

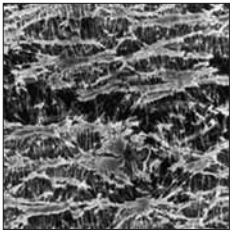
Application area

- Filter membranes for filtration of critical media in laboratory and process filtration.
- For air, gas and aerosol filtration.

Product specification

- The material is resistant to strongest organic and inorganic compounds.
- Test and process temperatures up to +260 °C do not cause any problems just as use at the freezing point.
- The membranes feature a homogeneous honeycombed pore structure; the material is pure PTFE resin, tightly spun thus ruling out detaching of membrane fibres or particles.
- Due to the structure characteristics the membrane is best suited for deep-bed filtration just as for surface filtration.
- THOMAPOR®-PTFE membranes meet highest requirements and are used with THOMAPLAST®-filter holders made of PFA



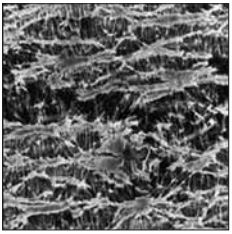


Item	Outside Ø mm	Pore size µm	Thickness mm	Unit piece	Price EURO
72546	47	0.2	0.65	10	185.00
72547	47	0.45	0.07	10	185.00
72537	47	1 - 2	0.25	10	98.00
72538	47	5 - 6	0.1	10	98.00
72539	47	20 - 30	0.14	10	98.00
72545	47	30 - 60	0.2	10	98.00
72540	50	1 - 2	0.25	10	106.00
72541	50	5 - 6	0.1	10	106.00
72542	50	20 - 30	0.14	10	106.00
72543	50	30 - 60	0.2	10	106.00

ZITEX®-High-Chem Round Filter made of PTFE

Product specification

- Ultra-pure; chemically inert
- Use for filtration of corrosive liquids or gases up to +204 °C, depending on application
- Compatible with virtually all solutions, non-clogging
- Fine and extra-fine grades may shrink at temperatures above +66 °C.
- Zitex® membranes act as „depth filters“ with high retention efficiency and non-clogging characteristics. They are used for filtration of corrosive and other aggressive chemicals or gases up to +204 °C. Unlike cellulose filter paper, the PTFE interstices are bonded together resulting in a stabilized pore configuration. This unique combination of depth filter and screen characteristics creates a highly effective filter media. Zitex® membranes have a better controlled pore size distribution than other high temperature, chemically resistant membranes with similar pore size ratings.
- Zitex® filters are strong enough to be self supporting and may be used without any additional backing material, which could compromise results. The non-stick nature of Zitex® provides excellent filter cake release properties.
- Zitex® may be sterilized with steam or bactericidal solutions. It is suitable for chromatography solvent filtration and degassing. Zitex® membranes are inherently hydrophobic, which makes them ideal as venting devices. However, aqueous solutions may be filtered by using pressures exceeding the membrane's water initiation pressure, or with the aid of wetting agents, such as methanol or ethanol. Disks are interleaved with separators for cleanliness and ease of handling.



Item	Outside Ø mm	Pore size µm	Thickness mm	Max. flow rate liquids[1] ml/min.	Unit piece	Price EURO
602921	47	1 - 3	0.25	120	10	115.00
602971	47	3 - 5	0.2	200	10	115.00
603021	47	10 - 20	0.13	320	10	115.00
603071	47	20 - 30	0.15	620	10	115.00
603121	47	30 - 60	0.18	1,800	10	115.00
60302	75	10 - 20	0.13	320	10	151.00
60307	75	20 - 30	0.15	620	10	151.00
60312	75	30 - 60	0.18	1,800	10	151.00
60293	90	1 - 3	0.25	120	10	196.00
60298	90	3 - 5	0.2	200	10	196.00
60303	90	10 - 20	0.13	320	10	196.00
60308	90	20 - 30	0.15	620	10	196.00
60304	110	10 - 20	0.13	320	10	239.00
60309	110	20 - 30	0.15	620	10	239.00
60300	125	3 - 5	0.2	200	5	207.00
60305	125	10 - 20	0.13	320	5	207.00
60310	125	20 - 30	0.15	620	5	207.00
60306	150	10 - 20	0.13	320	5	167.00

Item	Outside Ø mm	Pore size µm	Thick-ness mm	Max. flow rate liquids[1] ml/min.	Unit piece	Price EURO
60311	150	20 - 30	0.15	620	5	167.00
60316	150	30 - 60	0.18	1,800	5	167.00

[1] Water (ml/min. x cm^2 x bar) [2] for ethanol

THOMAPOR®-Filters made of PVC

Application area

- For production of ultrapure water of 1-18 megohm quality.
- Microfiltration; suspension of starch, resins, activated carbon; precipitation of proteins, barium sulfate, silicic acid. Bacteria and spores are retained completely allowing sterile preparation of water and air for enzymes, sterile rooms and bacteriological cultures. For collection of dust samples in the air.
- In food processing and beverage industry as well as in the pharmaceutical industry.
- Filtration of drinking water, for filtration of organic materials and recovery of noble metals from electroplating solutions.
- Pretreatment for reverse osmosis.

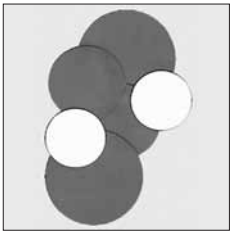
General product specification

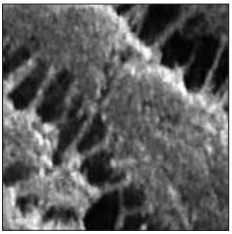
- High filtration precision:
- The membrane filters have a regular pore size distribution allowing precise filtration.
- Wide pore size range:
- The membrane filters are available with pore sizes 0.1; 0.2; 0.4 and 0.9 µm. Pore sizes are verified with „mercury intrusion“ and „bubble point test“.
- Flexibility and high mechanical stability:
- The membrane filters maintain their physical properties even in strongly altered working conditions.
- No shape change during boiling test:
- Longer exposition to boiling water has no impact on the physical properties of the membrane filters.
- Autoclaving:
- The membrane filters are temperature-resistant up to +125 °C and insensitive to commonly used hot sterilization procedures such as autoclaving or in-situ steam sterilization.

General technical specification

- **Max. temperature:** +90 °C, for a short time up to +105 °C
- **pH range:** 1 - 12 at +35 °C
- **Hot air resistance:** up to +125 °C

THOMAPOR®-Round Filter made of PVC



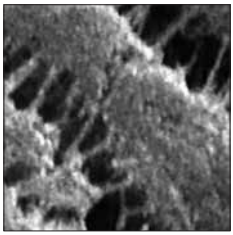


Item	Outside Ø mm	Pore size µm	Unit piece	Price EURO
94471	13	0.2	50	35.00
94472	13	0.4	50	35.00
94473	13	0.9	50	35.00
94420	25	0.1	50	45.00
94421	25	0.2	50	45.00
94422	25	0.4	50	45.00
94423	25	0.9	50	45.00
94424	47	0.1	50	80.00
94425	47	0.2	50	80.00
94426	47	0.4	50	80.00
94427	47	0.9	50	80.00
94475	50	0.2	50	90.00
94476	50	0.4	50	90.00
94477	50	0.9	50	90.00
94431	55	0.1	50	100.00
94435	55	0.2	50	100.00
94439	55	0.4	50	100.00
94454	55	0.9	50	100.00
94432	70	0.1	50	130.00
94436	70	0.2	25	130.00
94440	70	0.4	25	130.00
94455	70	0.9	25	130.00
94433	90	0.1	50	180.00
94437	90	0.2	25	180.00
94441	90	0.4	25	180.00
94456	90	0.9	25	180.00

THOMAPOR®-Filter Cutting made of PVC

Item	Pore size µm	Dimensions mm	Unit piece	Price EURO
94430	0.1	300 x 300	1	192.00
94434	0.2	300 x 300	1	192.00
94438	0.4	300 x 300	1	192.00

THOMAPOR®-Filter Plate made of PVC



Item	Pore size µm	Width mm	Unit m	Price EURO
94446	0.1	300	15	1,118.00
94447	0.2	300	15	1,118.00
94448	0.4	300	15	1,118.00
94458	0.9	300	15	1,118.00
94449	0.1	600	15	2,043.00
94450	0.2	600	15	2,043.00
94451	0.4	600	15	2,043.00
94459	0.9	600	15	2,043.00

Screen Cloths, Filter Cloths, Fleeces and Mats

THOMAPOR®-Screen Cloth made of Polyester

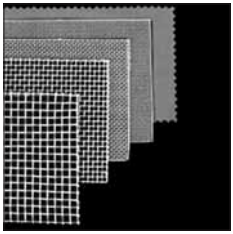
Application area
- Cloth for screening and filtering purposes

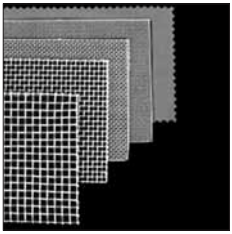
General product specification
- Polyester monofilament (PET) features high weave quality, precision and regularity of mesh sizes. The cloth is insensitive to vibrations and highly resistant to fatigue caused by vibrations and bending. It does not crack and features very high abrasion resistance and resilience.
- Moderate abrasion and hydrolysis resistance
- Good resistance to solvents and acids
- Poor UV-resistance

General technical specification
- **Material:** polyester
- **Density:** 1.38 g/mm^3
- **Tensile strength:** 45 - 75 daN/mm^2
- **Relative strength at wet conditions:** 100 %
- **Elongation at break:** 15 - 30 %
- **Moisture uptake:** 0.4 % (at +20 °C and 65 % r.h.)
- **Melting point:** +255 °C
- **Softening temperature:** +230 °C
- **Temperature range:** -75 to +150 °C (dry heat resistance at permanent load up to +150 °C)

THOMAPOR®-Screen Cloth made of Polyester - cutting

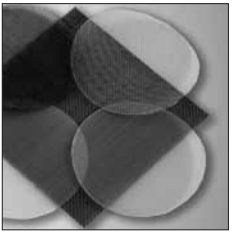
Product specification
- Deliverable in small individual segments (20 x 29 cm) or in a cost-effective large format of 100 x 102 cm.

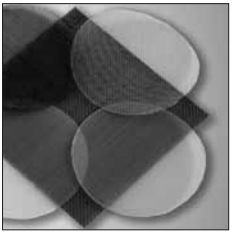




Item	Mesh size µm	Ø thread µm	Open area %	Thick-ness µm	Dimensions cm	Price EURO
95801	4,000	1,000	64	1,900	20 x 29	44.00
95802	3,000	800	62	1,480	20 x 29	47.00
95803	2,200	800	37.4	1,450	20 x 29	47.00
95804	2,000	800	51	1,500	20 x 29	47.00
95805	1,600	450	61	840	20 x 29	47.00
95806	1,410	600	49	1,300	20 x 29	47.00
95807	1,000	500	45	1,000	20 x 29	47.00
95808	840	400	46	785	20 x 29	47.00
95809	800	280	55	520	20 x 29	47.00
95810	710	350	45	745	20 x 29	47.00
95811	600	245	51	450	20 x 29	47.00
95812	500	220	48	410	20 x 29	47.00
95813	400	188	48	335	20 x 29	47.00
95814	300	143	46	245	20 x 29	47.00
95815	250	152	39	290	20 x 29	47.00
95816	200	104	43	170	20 x 29	47.00
95817	150	86	41	140	20 x 29	47.00
95818	100	77	32	125	20 x 29	47.00
95819	90	72	31	115	20 x 29	47.00
95820	80	62	32	90	20 x 29	49.00
95821	73	43	40	65	20 x 29	49.00
95822	59	44	33	65	20 x 29	49.00
95823	51	38	33	60	20 x 29	49.00
95824	40	40	25	60	20 x 29	64.00
95825	33	40	20.5	60	20 x 29	67.00
95826	31	46	16.5	75	20 x 29	72.00
95827	20	37	13	60	20 x 29	100.00
95828	11	38	5	60	20 x 29	110.00
95830	4,000	1,000	64	1,900	100 x 102	187.00
95831	3,000	800	62	1,480	100 x 102	167.00
95832	2,200	800	37.4	1,450	100 x 102	167.00
95833	2,000	800	51	1,500	100 x 102	167.00
95834	1,600	450	61	840	100 x 102	167.00
95835	1,410	600	49	1,300	100 x 102	177.00
95836	1,000	500	45	1,000	100 x 102	167.00
95837	840	400	46	785	100 x 102	167.00
95838	800	280	55	520	100 x 102	167.00
95839	710	350	45	745	100 x 102	167.00
95840	600	245	51	450	100 x 102	167.00
95841	500	220	48	410	100 x 102	167.00
95842	400	188	48	335	100 x 102	167.00
95843	300	143	46	245	100 x 102	167.00
95844	250	152	39	290	100 x 102	167.00
95845	200	104	43	170	100 x 102	167.00
95846	150	86	41	140	100 x 102	167.00
95847	100	77	32	125	100 x 102	167.00
95848	90	72	31	115	100 x 102	177.00
95849	80	62	32	90	100 x 102	177.00
95850	73	43	40	65	100 x 102	177.00
95851	59	44	33	65	100 x 102	192.00
95852	51	38	33	60	100 x 102	205.00
95853	40	40	25	60	100 x 102	261.00
95854	33	40	20.5	60	100 x 102	292.00
95855	31	46	16.5	75	100 x 102	356.00
95856	20	37	13	60	100 x 102	407.00
95857	11	38	5	60	100 x 102	458.00

THOMAPOR®-Screen Cloth made of Polyester - round blank





Item	Outside Ø mm	Mesh size µm	Ø thread µm	Open area %	Thick-ness µm	Unit piece	Price EURO
95858	13	11	38	5	60	100	110.00
95859	13	20	37	12.5	60	100	110.00
95860	13	31	46	16.5	75	100	110.00
95861	13	40	40	25	60	100	110.00
95862	13	59	44	33	65	100	110.00
95863	13	80	62	32	90	100	110.00
95864	13	100	77	32	125	100	110.00
95865	13	200	104	43	170	100	110.00
95866	13	300	143	46	245	100	110.00
95867	13	500	220	48	410	100	110.00
95868	13	710	350	45	745	100	110.00
95869	13	800	280	55	520	100	110.00
95870	13	1,000	500	45	1,000	100	110.00
95873	25	11	38	5	60	100	130.00
95874	25	20	37	12.5	60	100	130.00
95875	25	31	46	16.5	75	100	130.00
95876	25	40	40	25	60	100	200.00
95877	25	59	44	33	65	100	110.00
95878	25	80	62	32	90	100	110.00
95879	25	100	77	32	125	100	110.00
95880	25	200	104	43	170	100	110.00
95881	25	300	143	46	245	100	110.00
95882	25	500	220	48	410	100	110.00
95883	25	710	350	45	745	100	110.00
95884	25	800	280	55	520	100	110.00
95885	25	1,000	500	45	1,000	100	110.00
95886	25	2,000	800	51	1,500	100	110.00
95887	25	3,360	1,000	59.5	2,045	100	110.00
95888	47	11	38	5	60	100	170.00
95889	47	20	37	12.5	60	100	170.00
95890	47	31	46	16.5	75	100	170.00
95891	47	40	40	25	60	100	170.00
95892	47	59	44	33	65	100	120.00
95893	47	80	62	32	90	100	120.00
95894	47	100	77	32	125	100	120.00
95895	47	200	104	43	170	100	120.00
95896	47	300	143	46	245	100	120.00
95897	47	500	220	48	410	100	120.00
95898	47	710	350	45	745	100	120.00
95899	47	800	280	55	520	100	120.00
95900	47	1,000	500	45	1,000	100	120.00
95901	47	2,000	800	51	1,500	100	120.00
95903	50	11	38	5	60	100	170.00
95904	50	20	37	12.5	60	100	170.00
95905	50	31	46	16.5	75	100	170.00
95906	50	40	40	25	60	100	170.00
95907	50	59	44	33	65	100	140.00
95908	50	80	62	32	90	100	140.00
95909	50	100	77	32	125	100	140.00
95910	50	200	104	43	170	100	140.00
95911	50	300	143	46	245	100	140.00
95912	50	500	220	48	410	100	140.00
95913	50	710	350	45	745	100	140.00
95914	50	800	280	55	520	100	140.00
95915	50	1,000	500	45	1,000	100	140.00
95916	50	2,000	800	51	1,500	100	140.00
95918	76	11	38	5	60	100	300.00
95919	76	20	37	12.5	60	100	300.00
95920	76	31	46	16.5	75	100	300.00
95921	76	40	40	25	60	100	248.00
95922	76	59	44	33	65	100	170.00
95923	76	80	62	32	90	100	170.00
95924	76	100	77	32	125	100	170.00
95925	76	200	104	43	170	100	170.00
95926	76	300	143	46	245	100	170.00
95927	76	500	220	48	410	100	170.00
95928	76	710	350	45	745	100	170.00
95929	76	800	280	55	520	100	170.00
95930	76	1,000	500	45	1,000	100	170.00
95931	76	2,000	800	51	1,500	100	170.00
95932	76	3,360	1,000	59.5	2,045	100	170.00
95933	100	11	38	5	60	50	250.00
95934	100	20	37	12.5	60	50	250.00
95935	100	31	46	16.5	75	50	250.00
95936	100	40	40	25	60	50	250.00
95937	100	59	44	33	65	50	175.00
95938	100	80	62	32	90	50	175.00
95939	100	100	77	32	125	50	175.00
95940	100	200	104	43	170	50	175.00
95941	100	300	143	46	245	50	175.00
95942	100	500	220	48	410	50	175.00
95943	100	710	350	45	745	50	175.00
95944	100	800	280	55	520	50	175.00
95945	100	1,000	500	45	1,000	50	175.00
95948	107.5	11	38	5	60	50	271.00
95949	107.5	20	37	12.5	60	50	271.00
95950	107.5	31	46	16.5	75	50	271.00
95951	107.5	40	40	25	60	50	271.00
95952	107.5	59	44	33	65	50	164.00
95953	107.5	80	62	32	90	50	164.00
95954	107.5	100	77	32	125	50	164.00
95955	107.5	200	104	43	170	50	164.00
95956	107.5	300	143	46	245	50	164.00
95957	107.5	500	220	48	410	50	164.00
95958	107.5	710	350	45	745	50	164.00
95959	107.5	800	280	55	520	50	164.00
95960	107.5	1,000	500	45	1,000	50	164.00

Item	Outside Ø mm	Mesh size µm	Ø thread µm	Open area %	Thick-ness µm	Unit piece	Price EURO
95978	110	11	38	5	60	50	228.00
95979	110	20	37	12.5	60	50	228.00
95980	110	31	46	16.5	75	50	228.00
95981	110	40	40	25	60	50	205.00
95982	110	59	44	33	65	50	167.00
95983	110	80	62	32	90	50	167.00
95984	110	100	77	32	125	50	167.00
95985	110	200	104	43	170	50	167.00
95986	110	300	143	46	245	50	167.00
95987	110	500	220	48	410	50	167.00
95988	110	710	350	45	745	50	167.00
95989	110	800	280	55	520	50	167.00
95990	110	1,000	500	45	1,000	50	167.00
95993	142	11	38	5	60	25	254.00
95994	142	20	37	12.5	60	25	254.00
95995	142	31	46	16.5	75	25	254.00
95996	142	40	40	25	60	25	228.00
95997	142	59	44	33	65	25	190.00
95998	142	80	62	32	90	25	190.00
95999	142	100	77	32	125	25	190.00
96000	142	200	104	43	170	25	190.00
96001	142	300	143	46	245	25	190.00
96002	142	500	220	48	410	25	190.00
96003	142	710	350	45	745	25	190.00
96004	142	800	280	55	520	25	190.00
96005	142	1,000	500	45	1,000	25	190.00
96008	200	11	38	5	60	25	537.00
96009	200	20	37	12.5	60	25	537.00
96010	200	31	46	16.5	75	25	537.00
96011	200	40	40	25	60	25	430.00
96012	200	59	44	33	65	25	277.00
96013	200	80	62	32	90	25	277.00
96014	200	100	77	32	125	25	277.00
96015	200	200	104	43	170	25	277.00
96016	200	300	143	46	245	25	277.00
96017	200	500	220	48	410	25	243.00
96018	200	710	350	45	745	25	243.00
96019	200	800	280	55	520	25	243.00
96020	200	1,000	500	45	1,000	25	243.00
96048	293	11	38	5	60	25	959.00
96049	293	20	37	12.5	60	25	959.00
96050	293	31	46	16.5	75	25	959.00
96051	293	40	40	25	60	25	634.00
96052	293	59	44	33	65	25	392.00
96053	293	80	62	32	90	25	392.00
96054	293	100	77	32	125	25	392.00
96055	293	200	104	43	170	25	392.00
96056	293	300	143	46	245	25	392.00
96057	293	500	220	48	410	25	356.00
96058	293	710	350	45	745	25	356.00
96059	293	800	280	55	520	25	356.00
96060	293	1,000	500	45	1,000	25	356.00

THOMAPOR®-Screen Cloth made of Polyamide

Application area

- Cloth for screening and filtering purposes

General product specification

- Monofil nylon cloth featuring high weave quality, precision and regularity of mesh sizes. It is insensitive to vibrations, highly resistant to fatigue caused by vibrating or bending and does not crack.
- Turning yellow and reduction of stability depending on temperature and exposure time
- The cloth features very high abrasion resistance, good hydrolysis resistance and resilience.
- Poor UV-resistance
- **Chemical features:**
  Solvent resistance: Good resistance to organic solvents except to dimethylformamide, aniline, cyclohexanone, hot o-dichlorobenzene, phenols and cold m-cresol.
  Resistance to acids: Is destroyed in cold hydrochloric acid, sulfuric acid, and formic acid etc. depending on concentration.
  Resistance to alkalis: Very good resistance to alkalis at room temperature.

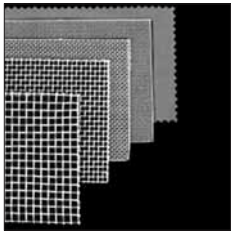
General technical specification

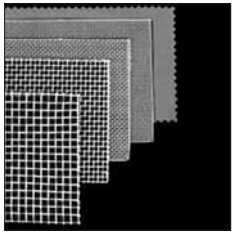
- **Material:** PA 6.6 (polyamide 6.6)
- **Density:** 1.14 g/mm^3
- **Tensile strength:** 41 - 67 daN/mm^2
- **Relative strength at wet conditions:** 85 - 90 %
- **Elongation at break:** 20 - 35 %
- **Moisture uptake:** 3.5 - 4 % (at +20 °C and 65 % r.h.)
- **Melting point:** +250 °C
- **Softening temperature:** +230 °C
- **Temperature range:** -40 to +115 °C (turning yellow above +100 °C)

THOMAPOR®-Screen Cloth made of Polyamide - cutting

Product specification

- Deliverable in small individual segments (20 x 29 cm) or in a cost-effective large format of 100 x 102 cm.

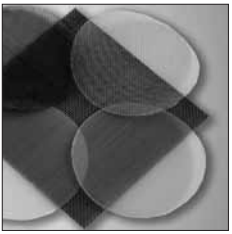


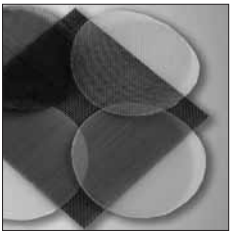


Item	Mesh size µm	Ø thread µm	Open area %	Thick-ness µm	Dimensions cm	Price EURO
948301	2,000	750	53	1,450	20 x 29	49.00
948311	1,000	515	43.5	1,040	20 x 29	41.00
948321	700	265	52.5	485	20 x 29	41.00
948331	500	315	37.5	580	20 x 29	41.00
948341	400	250	38	450	20 x 29	41.00
948351	300	215	33.5	390	20 x 29	41.00
948361	250	180	34	290	20 x 29	41.00
948371	200	150	33	265	20 x 29	41.00
948381	150	95	37.5	155	20 x 29	47.00

Item	Mesh size µm	Ø thread µm	Open area %	Thick-ness µm	Dimensions cm	Price EURO
948391	100	77	32	125	20 x 29	47.00
948401	80	52	37	180	20 x 29	47.00
948411	60	47	31.5	75	20 x 29	52.00
948421	50	40	31	60	20 x 29	52.00
948431	41	33	31	50	20 x 29	59.00
948441	30	41	18	60	20 x 29	67.00
948451	20	34	14	55	20 x 29	85.00
948461	11	36	6	65	20 x 29	95.00
948471	5	37	1	100	20 x 29	110.00
948302	2,000	750	53	1,450	100 x 102	172.00
948312	1,000	515	43.5	1,040	100 x 102	146.00
948322	700	265	52.5	485	100 x 102	146.00
948332	500	315	37.5	580	100 x 102	146.00
948342	400	250	38	450	100 x 102	146.00
948352	300	215	33.5	390	100 x 102	146.00
948362	250	180	34	290	100 x 102	146.00
948372	200	150	33	265	100 x 102	146.00
948382	150	95	37.5	155	100 x 102	151.00
948392	100	77	32	125	100 x 102	169.00
948402	80	52	37	180	100 x 102	192.00
948412	60	47	31.5	75	100 x 102	202.00
948422	50	40	31	60	100 x 102	210.00
948432	41	33	31	50	100 x 102	292.00
948442	30	41	18	60	100 x 102	305.00
948452	20	34	14	55	100 x 102	376.00
948462	11	36	6	65	100 x 102	404.00
948472	5	37	1	100	100 x 102	499.00

THOMAPOR®-Screen Cloth made of Polyamide - round blank





Item	Outside Ø mm	Mesh size µm	Ø thread µm	Open area %	Thick-ness µm	Unit piece	Price EURO
95580	13	5	37	1	100	100	110.00
95581	13	11	36	6	65	100	110.00
95582	13	20	34	14	55	100	110.00
95583	13	30	41	18	60	100	110.00
95584	13	41	33	31	50	100	103.00
95585	13	50	40	31	60	100	103.00
95586	13	60	47	31.5	75	100	103.00
95587	13	80	52	37	80	100	103.00
95588	13	100	77	32	125	100	103.00
95589	13	150	95	37.5	155	100	103.00
95590	13	200	150	33	265	100	103.00
95591	13	700	265	52.5	485	100	103.00
95594	25	5	37	1	100	100	123.00
95595	25	11	36	6	65	100	123.00
95596	25	20	34	14	55	100	123.00
95597	25	30	41	18	60	100	123.00
95598	25	41	33	31	50	100	110.00
95599	25	50	40	31	60	100	110.00
95600	25	60	47	31.5	75	100	110.00
95601	25	80	52	37	80	100	110.00
95602	25	100	77	32	125	100	110.00
95603	25	150	95	37.5	155	100	110.00
95604	25	200	150	33	265	100	110.00
95606	25	1,000	515	43.5	1,040	100	110.00
95608	47	5	37	1	100	100	170.00
95609	47	11	36	6	65	100	170.00
95610	47	20	34	14	55	100	170.00
95611	47	30	41	18	60	100	170.00
95612	47	41	33	31	50	100	144.00
95613	47	50	40	31	60	100	144.00
95614	47	60	47	31.5	75	100	144.00
95615	47	80	52	37	80	100	144.00
95616	47	100	77	32	125	100	144.00
95617	47	150	95	37.5	155	100	144.00
95618	47	200	150	33	265	100	144.00
95620	47	1,000	515	43.5	1,040	100	144.00
95622	50	5	37	1	100	100	184.00
95623	50	11	36	6	65	100	184.00
95624	50	20	34	14	55	100	184.00
95625	50	30	41	18	60	100	170.00
95626	50	41	33	31	50	100	150.00
95627	50	50	40	31	60	100	150.00
95628	50	60	47	31.5	75	100	150.00
95629	50	80	52	37	80	100	150.00
95630	50	100	77	32	125	100	150.00
95631	50	150	95	37.5	155	100	150.00
95632	50	200	150	33	265	100	150.00
95634	50	1,000	515	43.5	1,040	100	150.00
95636	76	5	37	1	100	100	300.00
95637	76	11	36	6	65	100	300.00
95638	76	20	34	14	55	100	300.00
95639	76	30	41	18	60	100	230.00
95640	76	41	33	31	50	100	180.00
95641	76	50	40	31	60	100	180.00
95642	76	60	47	31.5	75	100	180.00
95643	76	80	52	37	80	100	180.00
95644	76	100	77	32	125	100	180.00
95645	76	150	95	37.5	155	100	180.00
95646	76	200	150	33	265	100	180.00
95650	100	5	37	1	100	50	270.00
95651	100	11	36	6	65	50	270.00
95652	100	20	34	14	55	50	270.00
95653	100	30	41	18	60	50	240.00
95654	100	41	33	31	50	50	190.00
95655	100	50	40	31	60	50	190.00

Item	Outside Ø mm	Mesh size µm	Ø thread µm	Open area %	Thick-ness µm	Unit piece	Price EURO
95656	100	60	47	31.5	75	50	190.00
95657	100	80	52	37	80	50	190.00
95658	100	100	77	32	125	50	190.00
95659	100	150	95	37.5	155	50	190.00
95660	100	200	150	33	265	50	190.00
95661	100	700	265	52.5	485	50	190.00
95662	100	1,000	515	43.5	1,040	50	190.00
95664	107.5	5	37	1	100	50	260.00
95665	107.5	11	36	6	65	50	260.00
95666	107.5	20	34	14	55	50	260.00
95667	107.5	30	41	18	60	50	208.00
95668	107.5	41	33	31	50	50	200.00
95669	107.5	50	40	31	60	50	200.00
95670	107.5	60	47	31.5	75	50	200.00
95672	107.5	100	77	32	125	50	200.00
95673	107.5	150	95	37.5	155	50	200.00
95674	107.5	200	150	33	265	50	200.00
95675	107.5	700	265	52.5	485	50	200.00
95676	107.5	1,000	515	43.5	1,040	50	200.00
95678	110	5	37	1	100	50	300.00
95679	110	11	36	6	65	50	300.00
95680	110	20	34	14	55	50	300.00
95681	110	30	41	18	60	50	215.00
95682	110	41	33	31	50	50	200.00
95683	110	50	40	31	60	50	200.00
95684	110	60	47	31.5	75	50	200.00
95686	110	100	77	32	125	50	195.00
95687	110	150	95	37.5	155	50	200.00
95688	110	200	150	33	265	50	200.00
95689	110	700	265	52.5	485	50	200.00
95690	110	1,000	515	43.5	1,040	50	200.00
95692	142	5	37	1	100	25	275.00
95693	142	11	36	6	65	25	275.00
95694	142	20	34	14	55	25	275.00
95695	142	30	41	18	60	25	235.00
95696	142	41	33	31	50	25	225.00
95697	142	50	40	31	60	25	215.00
95698	142	60	47	31.5	75	25	215.00
95699	142	80	52	37	80	25	215.00
95700	142	100	77	32	125	25	215.00
95701	142	150	95	37.5	155	25	215.00
95702	142	200	150	33	265	25	215.00
95703	142	700	265	52.5	485	25	215.00
95704	142	1,000	515	43.5	1,040	25	225.00
95706	200	5	37	1	100	25	600.00
95707	200	11	36	6	65	25	600.00
95708	200	20	34	14	55	25	600.00
95709	200	30	41	18	60	25	450.00
95710	200	41	33	31	50	25	325.00
95711	200	50	40	31	60	25	315.00
95712	200	60	47	31.5	75	25	325.00
95713	200	80	52	37	80	25	315.00
95714	200	100	77	32	125	25	315.00
95715	200	150	95	37.5	155	25	315.00
95716	200	200	150	33	265	25	315.00

Item	Outside Ø mm	Mesh size µm	Ø thread µm	Open area %	Thick-ness µm	Unit piece	Price EURO
95717	200	700	265	52.5	485	25	325.00
95718	200	1,000	515	43.5	1,040	25	325.00
95720	293	5	37	1	100	25	975.00
95721	293	11	36	6	65	25	975.00
95722	293	20	34	14	55	25	975.00
95723	293	30	41	18	60	25	675.00
95724	293	41	33	31	50	25	450.00
95725	293	50	40	31	60	25	450.00
95726	293	60	47	31.5	75	25	450.00
95729	293	150	95	37.5	155	25	375.00
95730	293	200	150	33	265	25	375.00
95731	293	700	265	52.5	485	25	375.00
95732	293	1,000	515	43.5	1,040	25	375.00

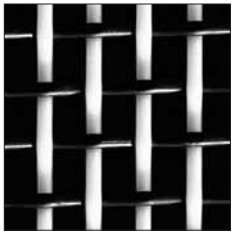
THOMAPOR®-Screen Cloth made of Polyamide (antistatic) - cutting

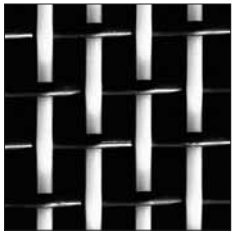
Product specification

- The screen cloth in antistatic design is particularly suited for screening of dry and electrostatically chargeable materials due to incorporated electrically conductive threads (no clogging, thus no danger of electrical discharge and sparking).
- Advantages compared to metal fabrics: more application possibilities, lower weight, mechanical and elastic properties of a standard PA 6.6 synthetic fabric.
- Deliverable in small individual segments (20 x 29 cm) or in a cost-effective large format (other lengths are available on request)

Technical specification

- **Colour:** silver (optically, under microscope alternately black and white threads are visible)
- **Resistivity:** $<1 \times 10^4$ to $<1 \times 10^6$ ohm





Item	Mesh size µm	Ø thread µm	Open area %	Thick-ness µm	Dimensions cm	Price EURO
948601[1]	82	52	37	92	20 x 29	55.00
948611	105	43	40	125	20 x 29	52.00
948621	120	43	42	135	20 x 29	49.00
948631	160	80	44	148	20 x 29	47.00
948641	245	120	45	230	20 x 29	43.00
948651[2]	510	220	45	330	20 x 29	40.00
948602[1]	82	52	37	92	108 x 102	220.00
948612	105	43	40	125	136 x 102	207.00
948622	120	43	42	135	136 x 102	199.00
948632	160	80	44	148	158 x 102	189.00

Item	Mesh size µm	Ø thread µm	Open area %	Thick-ness µm	Dimensions cm	Price EURO
948642	245	120	45	230	115 x 102	173.00
948652[2]	510	220	45	330	115 x 102	163.00

[1] Colour: black [2] Material: PA6

THOMAPOR®-Screen Cloth made of Polypropylene

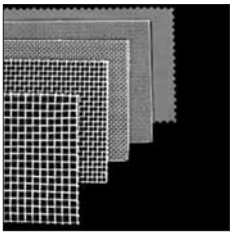
Application area
- Cloth for screening and filtering purposes

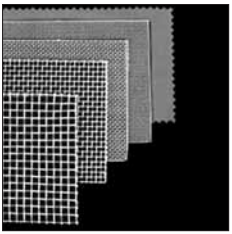
General product specification
- Polypropylene monofilament features high weave quality, precision and regularity of mesh sizes. The cloth scarcely shows signs of fatigue and features good abrasion resistance.
- Good resistance to solvents, acids and alkalis
- Poor UV-resistance

General technical specification
- **Material:** PP
- **Density:** 0.91 g/mm^3
- **Tensile strength:** 35 - 62 daN/mm^2
- **Relative strength at wet conditions:** 100 %
- **Elongation at break:** 20 - 50 %
- **Moisture uptake:** 0 % (at +20 °C and 65 % r.h.)
- **Melting point:** +170 °C
- **Softening temperature:** +150 °C
- **Temperature range:** -30 to +90 °C, for a short time up to +120 °C

THOMAPOR®-Screen Cloth made of Polypropylene - cutting

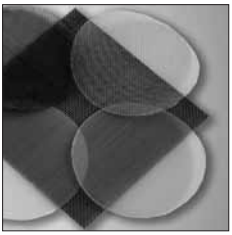
Product specification
- Deliverable in small individual segments (20 x 29 cm) or in a cost-effective large format of 100 x 102 cm.

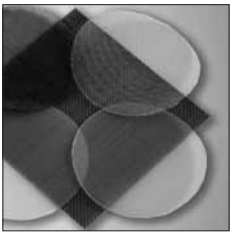




Item	Mesh size µm	Ø thread µm	Open area %	Thick-ness µm	Dimensions cm	Price EURO
948201	2,000	800	51	1,310	20 x 29	47.00
948211	1,000	500	45	1,020	20 x 29	47.00
948221	500	340	36	610	20 x 29	47.00
948231	250	215	29	430	20 x 29	47.00
948241	105	165	16	360	20 x 29	47.00
948202	2,000	800	51	1,310	100 x 102	185.00
948212	1,000	500	45	1,020	100 x 102	185.00
948222	500	340	36	610	100 x 102	185.00
948232	250	215	29	430	100 x 102	185.00
948242	105	165	16	360	100 x 102	192.00

THOMAPOR®-Screen Cloth made of Polypropylene - round blank





Item	Outside Ø mm	Mesh size µm	Ø thread µm	Open area %	Thick-ness µm	Unit piece	Price EURO
95735	13	75	85	21	195	100	110.00
95736	13	105	165	16	360	100	110.00
95737	13	250	215	29	430	100	110.00
95738	13	500	320	37	500	100	110.00
95739	13	1,000	500	45	1,020	100	110.00
95741	25	75	85	21	195	100	110.00
95742	25	105	165	16	360	100	110.00
95743	25	250	215	29	430	100	110.00
95744	25	500	320	37	500	100	110.00
95746	25	2,000	800	51	1,310	100	110.00
95748	47	105	165	16	360	100	130.00
95749	47	250	215	29	430	100	130.00
95750	47	500	320	37	500	100	130.00
95751	47	1,000	500	45	1,020	100	130.00
95754	50	105	165	16	360	100	160.00
95755	50	250	215	29	430	100	160.00
95756	50	500	320	37	500	100	160.00
95757	50	1,000	500	45	1,020	100	160.00
95760	76	105	165	16	360	100	170.00
95761	76	250	215	29	430	100	170.00
95762	76	500	320	37	500	100	170.00
95763	76	1,000	500	45	1,020	100	170.00
95764	76	2,000	800	51	1,310	100	170.00
95766	100	105	165	16	360	50	190.00
95767	100	250	215	29	430	50	190.00
95768	100	500	320	37	500	50	190.00
95769	100	1,000	500	45	1,020	50	190.00
95772	107.5	105	165	16	360	50	200.00
95773	107.5	250	215	29	430	50	200.00
95774	107.5	500	320	37	500	50	200.00
95775	107.5	1,000	500	45	1,020	50	200.00
95777	110	75	85	21	195	50	218.00
95778	110	105	165	16	360	50	218.00
95779	110	250	215	29	430	50	218.00
95780	110	500	320	37	500	50	218.00
95781	110	1,000	500	45	1,020	50	218.00
95783	142	75	85	21	195	25	240.00
95784	142	105	165	16	360	25	240.00
95785	142	250	215	29	430	25	240.00
95786	142	500	320	37	500	25	240.00
95787	142	1,000	500	45	1,020	25	240.00
95788	142	2,000	800	51	1,310	25	240.00

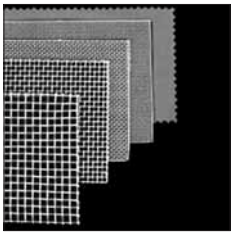
Item	Outside Ø mm	Mesh size µm	Ø thread µm	Open area %	Thick-ness µm	Unit piece	Price EURO
95790	200	105	165	16	360	25	305.00
95791	200	250	215	29	430	25	305.00
95792	200	500	320	37	500	25	305.00
95793	200	1,000	500	45	1,020	25	305.00
95796	293	105	165	16	360	25	433.00
95797	293	250	215	29	430	25	433.00
95798	293	500	320	37	500	25	433.00
95799	293	1,000	500	45	1,020	25	433.00

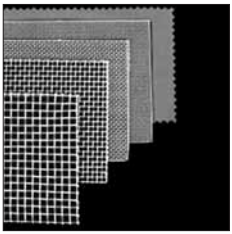
THOMAPOR®-Screen Cloth made of FEP

Application area
- Cloth for screening and filtering purposes

Product specification
- FEP (fluorinated ethylene-propylene copolymer) featuring high weaving quality, precision and regularity of mesh sizes. The mechanical loadability is excellent, symptoms of fatique not known.
- Good abrasion resistance
- Good resistance to solvents, acids and alkalis
- Good UV-resistance
- Deliverable in small individual segments (20 x 29 cm) or in a cost-effective large format of 100 x 102 cm.

Technical specification
- **Material:** FEP
- **Density:** 1.75 g/mm^3
- **Tensile strength:** 40 - 50 daN/mm^2
- **Relative strength at wet conditions:** 100 %
- **Elongation at break:** 25 %
- **Moisture uptake:** 0 % (at +20 °C and 65 % r.h.)
- **Melting point:** +270 °C
- **Softening temperature:** > +150 °C
- **Temperature range:** -190 to +150 °C





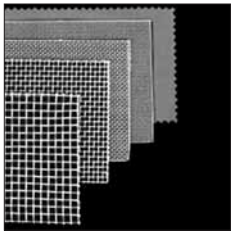
Item	Mesh size µm	Ø thread µm	Open area %	Thick-ness µm	Dimensions cm	Price EURO
948501	1,000	515	45	1,000	20 x 29	100.00
93187	1,000	412	55	800	20 x 29	100.00
948511	850	275	58	505	20 x 29	100.00
948521	500	280	42	500	20 x 29	100.00
948531	300	215	36	385	20 x 29	93.00
948541	250	152	39	290	20 x 29	95.00
948551	150	105	36	200	20 x 29	100.00
948561	120	80	36	145	20 x 29	110.00
948571	105	80	32.2	155	20 x 29	110.00
948581	70	80	21.7	158	20 x 29	113.00
948502	1,000	515	45	1,000	100 x 102	606.00
948512	850	275	58	505	100 x 102	453.00
948522	500	280	42	500	100 x 102	453.00
948532	300	215	36	385	100 x 102	453.00
948542	250	152	39	290	100 x 102	453.00
948552	150	105	36	200	100 x 102	509.00
948562	120	80	36	145	100 x 102	509.00
948572	105	80	32.2	155	100 x 102	509.00
948582	70	80	21.7	158	100 x 102	509.00

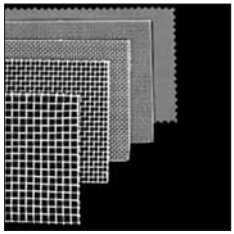
THOMAPOR®-Screen Cloth made of PVDC

Application area
- Cloth for process, product and laboratory filtration, settling sludge filtration, for use as air filter, for conveying belts and for making up of bags, also usable as support and carrier cloth.

Product specification
- Best abrasion resistance
- No wet elongation
- UV-resistant
- Good resistance to light and colour stability
- Flame-resistant
- Best elastic properties
- Good resistance over the whole pH range
- Remarkable dimensional stability

Technical specification
- **Material:** PVDC (polyvinylidene chloride)
- **Max. temperature:** +80 °C, for a short time up to +115 °C
- **Softening point:** +116 to +137 °C
- **Moisture uptake:** >0.01 %
- **Elongation at break:** 20 - 30 % depending on count of yarn





Item	Mesh size µm	Ø thread µm	Open area %	Thick-ness µm	Dimensions cm	Price EURO
302912	3,500	1,500	49	2,760	25 x 25	60.00
302913	2,200	900	50	1,656	25 x 25	65.00
302914	2,000	600	59	1,000	25 x 25	55.00
302915	1,200	380	58	700	25 x 25	55.00
302916	950	300	61	550	25 x 25	55.00
302917	700	380	42	700	25 x 25	55.00
302918	600	380	37	780	25 x 25	55.00
302919	600	300	44	550	25 x 25	55.00
302920	500	230	47	425	25 x 25	55.00

Item	Mesh size µm	Ø thread µm	Open area %	Thick-ness µm	Dimensions cm	Price EURO
302921	450	200	48	370	25 x 25	55.00
302922	400	230	40	425	25 x 25	55.00
302923	3,500	1,500	49	2,760	50 x 50	155.00
302924	2,200	900	50	1,656	50 x 50	160.00
302925	2,000	600	59	1,000	50 x 50	125.00
302926	1,200	380	58	700	50 x 50	125.00
302927	950	300	61	550	50 x 50	125.00
302928	700	380	42	700	50 x 50	125.00
302929	600	380	37	780	50 x 50	125.00
302930	600	300	44	550	50 x 50	125.00
302931	500	230	47	425	50 x 50	125.00
302932	450	200	48	370	50 x 50	125.00
302933	400	230	40	425	50 x 50	125.00
302934	3,500	1,500	49	2,760	100 x 100	335.00
302935	2,200	900	50	1,656	100 x 100	390.00
302936	2,000	600	59	1,000	100 x 100	285.00
302937	1,200	380	58	700	100 x 100	285.00
302938	950	300	61	550	100 x 100	285.00
302939	700	380	42	700	100 x 100	285.00
302940	600	380	37	780	100 x 100	285.00
302941	600	300	44	550	100 x 100	285.00
302942	500	230	47	425	100 x 100	285.00
302943	450	200	48	370	100 x 100	285.00
302944	400	230	40	425	100 x 100	285.00

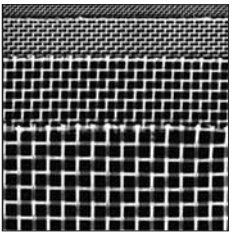
THOMAPOR®-Screen Cloth made of PVDF

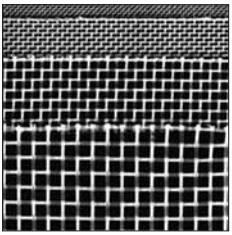
Application area

- Cloth for process, product and laboratory filtration in nuclear and reactor technology and chemical engineering, in aircraft manufacturing and in space engineering, in petrochemistry, in machine building and apparatus construction.

Product specification

- Heavy duty plastic
- Very good chemical resistance
- Excellent resistance to hydrolysis
- Good temperature resistance
- Low moisture uptake
- High mechanical stability
- High thermostability
- Very good radiation resistance
- Good stability to light
- Outstanding resistance to UV-radiation and weather
- Very good dimensional stability
- Physiologically absolutely safe





Technical specification

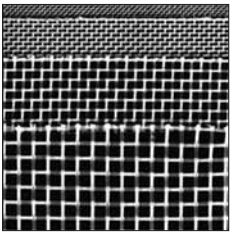
- **Material:** PVDF (polyvinylidene fluoride)
- **Max. temperature:** +120 °C, for a short time up to +140 °C
- **Melting point:** +175 °C

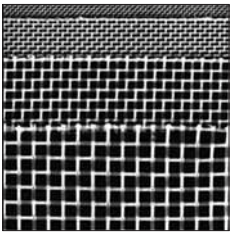
Item	Mesh size µm	Ø thread µm	Open area %	Thick-ness µm	Dimensions cm	Price EURO
302903	800	250	58	460	25 x 25	65.00
302904	500	250	44	490	25 x 25	75.00
302905	250	150	39	340	25 x 25	60.00
302906	800	250	58	460	50 x 50	150.00
302907	500	250	44	490	50 x 50	175.00
302908	250	150	39	340	50 x 50	145.00
302909	800	250	58	460	100 x 100	350.00
302910	500	250	44	490	100 x 100	410.00
302911	250	150	39	340	100 x 100	345.00

THOMAPOR®-Screen Cloth made of Stainless Steel SS 314

Technical specification

- **Cuttings:** 30 x 60 cm and 20 x 29 cm



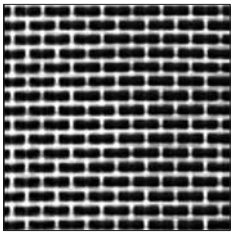


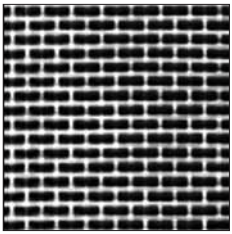
Item	Mesh size µm	Open area %	Dimensions cm	Price EURO
948711	25	28	20 x 29	156.00
948721	36	32	20 x 29	105.00
948731	50	39	20 x 29	87.00
948741	71	41	20 x 29	80.00
948751	100	44	20 x 29	75.00
948761	140	48	20 x 29	72.00
948771	250	51	20 x 29	69.00
948781	500	61	20 x 29	64.00
948791	1,000	67	20 x 29	64.00
948801	1,500	72	20 x 29	85.00
948811	2,000	74	20 x 29	77.00
948712	25	28	30 x 60	315.00
948722	36	32	30 x 60	233.00
948732	50	39	30 x 60	165.00
948742	71	41	30 x 60	145.00
948752	100	44	30 x 60	130.00
948762	140	48	30 x 60	126.00
948772	250	51	30 x 60	103.00
948782	500	61	30 x 60	105.00
948792	1,000	67	30 x 60	105.00
948802	1,500	72	30 x 60	118.00
948812	2,000	74	30 x 60	110.00

THOMAPOR®-Filter Cloth made of PE

Application area
- For filtration of dusts out of the air
- Use in wet filtration e.g. in cheese dairy (cheese cloth)

Product specification
- Light, outstandingly mechanical resistant quality, not fibrous
- The filter cloth can be either tied or knotted





Item	Thickness µm	Max. flow rate gases[1] l/sec.	Weight g/m²	Dimensions cm	Price EURO
94886	215	440	132	102 x 100	112.00

[1] Air (l/sec. x m² x bar)

THOMAPOR®-High-Tech Charcoal Fleece made of PE - fine-pored

Application area
- Filtration of electroplating solutions
- Filtration in chemical process engineering

Technical specification
- **Material:** PE (polyethylene)
- **Colour:** black
- **Design:** charcoal-loaded fleece
- **Pore size:** 30 - 46 µm
- **Charcoal component:** 50 %, corresponds to 225 g/m²

Item	Thickness mm	Max. flow rate gases[1] l/min.	Weight g/m²	Dimensions mm	Price EURO
332343	1.3	7	450	495 x 500	72.00
332344	1.3	7	450	500 x 990	120.00
332345	1.3	7	450	990 x 1.000	200.00

[1] Air (l/min./10 cm² at 10 cmWC)

THOMAPOR®-High-Tech Charcoal Fleece made of PE - medium-pored

Application area
- Medical gassing systems, filter and face masks, combat filter systems, clean-room filter systems

Technical specification
- **Material:** PE (polyethylene)
- **Colour:** grey
- **Design:** charcoal-loaded fleece
- **Pore size:** 89 - 109 µm
- **Charcoal component:** 30 %, corresponds to 60 g/m²

Item	Thickness mm	Max. flow rate gases[1] l/min.	Weight g/m²	Dimensions mm	Price EURO
332349	0.85	160	200	250 x 250	58.00
332350	0.85	160	200	500 x 500	98.00
332351	0.85	160	200	1.000 x 1.000	166.00

[1] Air (l/min./10 cm² at 10 cmWC)

THOMAPOR®-High-Tech Charcoal Fleece made of PE - large-pored

Application area
- medical gassing systems, filter and face masks, combat filter systems, clean-room filter systems

Technical specification
- **Material:** PE (polyethylene)
- **Colour:** grey
- **Design:** charcoal-loaded fleece
- **Pore size:** 160 - 235 µm
- **Charcoal component:** 57 %, corresponds to 114 g/m²

Item	Thickness mm	Max. flow rate gases[1] l/min.	Weight g/m²	Dimensions mm	Price EURO
332352	1.2	156	200	250 x 250	62.00
332353	1.2	156	200	500 x 500	104.00
332354	1.2	156	200	1.000 x 1.000	176.00

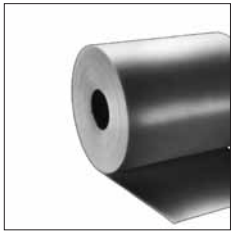
[1] Air (l/min./10 cm² at 10 cmWC)

THOMAPOR®-Filter Mat made of Polyester

Application area
- Heating systems, air-condition, ventilation

Product specification
- Synthetic and break proof fibre
- Progressively composed
- Thermically bonded

Technical specification
- **Material:** PEs (polyester)
- **Colour:** white
- **Design:** synthetic fibre mats (PEs)
- **Temperature range:** -15 to +100 °C
- **Burning behavior:** self-extinguishing F1 according to DIN 53438



301150, 301139

301150, 301139

Item	Thickness mm	Filter class	Width mm	Unit m	Price EURO
301150	10	G2	2,000	1	90.00
301151	10	G2	2,000	3	202.00
301152	10	G2	2,000	5	246.00
301153	20	G3	2,000	1	108.00
301154	20	G3	2,000	3	254.00
301155	20	G3	2,000	5	307.00
301156	25	G4	2,000	1	192.00
301157	25	G4	2,000	3	430.00
301158	25	G4	2,000	5	476.00
301159	16	F5	2,000	1	190.00
301160	16	F5	2,000	3	374.00
301161	16	F5	2,000	5	417.00

THOMAPOR®-Filter Mat made of Glass Fibre

Application area
- Suitable for all kinds of air condition and ventilation systems

Product specification
- **Material:** borosilicate fibre
- **Colour:** Room air side: white; air streaming side: yellow
- **Temperature range:** -15 to +45 °C

Item	Thickness mm	Filter class	Width mm	Unit m	Price EURO
301139	25	G3	500	5	105.00
301140	25	G3	500	10	167.00
301141	25	G3	1,500	1	105.00
301142	25	G3	1,500	5	261.00
301143	25	G3	1,500	10	412.00
301144	50	G3	500	1	64.00
301145	50	G3	500	5	136.00
301146	50	G3	500	10	223.00
301147	50	G3	1,500	1	151.00
301148	50	G3	1,500	5	381.00
301149	50	G3	1,500	10	601.00

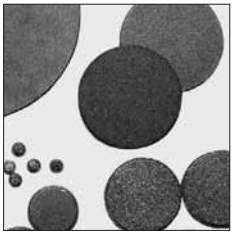
Frits, Eluent Filters and Immersion Filters

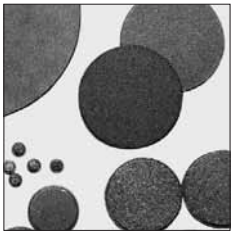
THOMACHROM®-Frits

General product specification
- Frits made of plastic, titanium, Hastelloy and proven material composites, high-pressure resistant, for 1/4“ HPLC columns and other HPLC system elements, for prefiltration of eluents, particularly for use in the metal-free chromatography.

THOMACHROM®-Column Frit made of Hastelloy

Product specification
- Homogeneous 1/4“ frits made of sintered chromium-nickel-molybdenum-tungsten-steel (Hastelloy C 276), the corrosion-proof material for chemical plant building. For chromatography of sensitive, particularly bioactive substances and for ion chromatography. Pore size 0.5 and 2 µm resp., thickness 1 mm.





Item	Outside Ø mm	Pore size µm	Unit piece	Price EURO
83412	6.4	0.5	3	45.00
83413	6.4	2	3	48.00

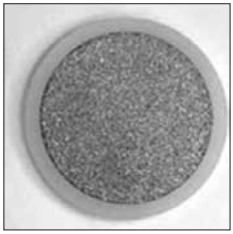
THOMACHROM®-Column Frit made of Titanium

Product specification
- Homogeneous 1/4“ frits made of sintered purest titanium, the absolutely corrosion-proof and biocompatible metallic material of highest mechanical and chemical stability. Suitable for all organic eluents, buffer and salt solutions, also strongly chlorine-containing ones, as well as strongly acid and basic eluents. For chromatography of sensitive high-molecular and bioactive substances in metal-free apparatuses and for ion chromatography. Pore sizes 0.5 and 2 µm resp., thickness 1 mm.

Item	Outside Ø mm	Pore size µm	Unit piece	Price EURO
83414	6.4	0.5	3	45.00
83415	6.4	2	3	51.00

THOMACHROM®-Column Frit made of Titanium framed with PCTFE Ring

Product specification
- Composite frits made of sintered purest titanium, framed with a sturdy ring made of PCTFE (polychlorotrifluoroethylene) for seal. The material combination titanium-K is chemically inert and absolutely biocompatible. Improved chromatography behaviour by more favourable matching of frit lumen and effective diameter of the frit body, lower dead volume and removal of resolution-decreasing diffusion and cavitation phenomena in the edge zone of the frit. Particularly suited for chromatography of sensitive, bioactive substances such as enzymes, peptides etc. in metal-free equipment. Also usable as filter cartridges for inlet valves in HPLC pumps such as Altex/Beckmann etc.



Item	Ø frit, effective mm	Ø frit mm	Pore size µm	Thick-ness mm	Unit piece	Price EURO
83416	4.6	6.35	2	1.6	2	34.00
83417	3.9	6.35	2	1.6	2	36.00
83418	3.2	6.35	2	1.6	2	39.00

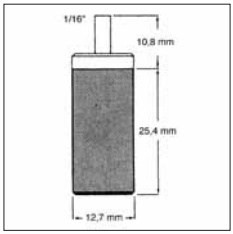
THOMACHROM®-Cylinder Frit made of Hastelloy

Application area

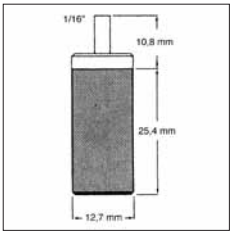
- Immersion frit body for connection to the eluent suction line for direct fine filtration of HPLC eluents during suction into the pumping system to protect seals, pistons and column packings from early wear due to contamination. Preferably for use in ion chromatography, for strongly acid, basic and other corrosive eluents.

Product specification

- Cylindrical hollow frit body made of highly corrosion-proof sintered Hastelloy C 275, the chromium-nickel-molybdenum-tungsten material for chemical plant building. Nozzle made of the same material, with PTFE fitted in the frit body. Nozzle outside diameter 1/8“.



83345, 83346



83345, 83346

Item	Outside Ø mm	Pore size µm	Length mm	Unit piece	Price EURO
83345	12.7	2	25.4	1	100.00

THOMACHROM®-Cylinder Frit made of Titanium

Application area

- Immersion frit body for connection to the eluent suction line for direct fine filtration of HPLC eluents during suction into the pumping system to protect seals, pistons and column packings from early wear due to contamination. Preferably for use in chromatography of instable macromolecules and bioactive substances as well as for ion chromatography.

Product specification

- Cylindrical hollow frit body made of sintered 99.9 % purest titanium, a metallic material combining chemical resistance and biocompatibility. Nozzle also made of purest titanium, with PTFE seal fitted in the frit body. Nozzle outside diameter 1/8“.

Item	Outside Ø mm	Pore size µm	Length mm	Unit piece	Price EURO
83346	12.7	2	25.4	1	123.00

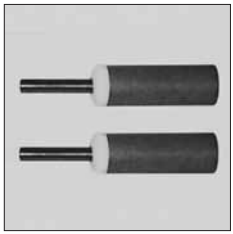
THOMACHROM®-Cylinder Frit made of Stainless Steel - Standard

Application area

- Immersion frit body for direct fine filtration of HPLC eluents during suction into the pumping system to protect seals, pistons and column packings from early wear due to contamination.

Product specification

- Cylindrical immersion frit body for direct fine filtration of HPLC eluents during suction into the pumping system, different pore sizes, with tubing connecting nozzle for mounting at the eluent suction tubing (internal diameter 1/8“ or 1/16“), made of proven stainless steel 1.4401 (SS 316), for use in the analytical and preparative HPLC with flow rates up to 100 ml/min.



Item	O-Ø mm	Pore size µm	Max. flow rate liquids[1] ml/min.	Length mm	For pipes O-Ø inch	For tubing I- Ø mm	Price EURO
83339	17.2	2	95	20.5		3.2	85.00
83340	12.7	2	35	25.4		3.2	85.00
83342	9.5	2	35	25.4		1.6	85.00
83344	12.7	2	35	25.4	1/8“		110.00
46653	22.2	2	50	38		3.2	110.00
46654	9.5	10	100	25.4	1/8“		85.00
83341	12.7	10	100	25.4		3.2	85.00
83343	12.7	10	50	25.4		1.6	85.00
46655	17.2	10	100	25.4	1/8“		85.00
46656	22.2	25	100	38		3.2	110.00

[1] Water (+20 °C)

THOMACHROM®-Cylinder Frit made of Stainless Steel - Universal

Application area

- Cylinder frits for prefiltration of eluents and for helium gassing of solutions and solvents in the analytical and preparative HPLC.

Product specification

- Cylindrical hollow frit bodies made of high-alloy, corrosion-proof sinter high-quality steel 1.4571, pore size 5 µm, long tubing nozzle for mounting of the eluent suction tubing of HPLC pumps, nozzle outside diameter 1/16“ and 1/8“ resp. Special „narrow-neck bottle“ design with frit body diameter of only 5.8 mm for drawing of eluents out of flasks and other narrow-lumen vessels, e.g. in experiments with premixed eluents for process development and in demonstration experiments.

Item	Outside Ø mm	Length mm	Ø nozzle mm	Unit piece	Price EURO
84026	5.8	22	1.6	1	108.00
84027	15	20	1.6	1	121.00
84028	15	20	3.2	1	133.00
84029	27	30	3.2	1	151.00

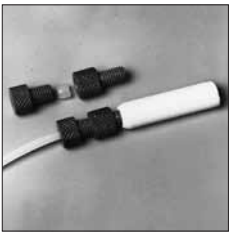
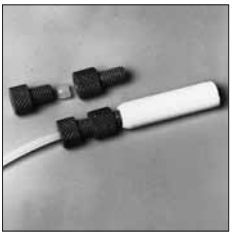
THOMAPOR®-Cylinder Frit made of PE

Application area

- Metal-free immersion filter for fine filtration of HPLC eluents during suction in the high-pressure pump, for protection of the sensitive suction pressure systems from early wear by suspended matter in the eluent. Preferably for metal-free chromatography of sensitive and bioactive materials, for enzyme and peptide separation and for ion chromatography and environmental analytics.

Product specification

- Cylinder frit with large active surface made of sintered polyethylene, chemical-resistant and suitable for aqueous solutions. Free of extractables, physiologically safe and biocompatible. Pore size <20 µm, high retention capacity at low flow resistance. Screwing-in connector made of inert polyether etherketone (PEEK) for 1/16“ or 1/8“ suction lines. Complete for easy mounting without tools.

Item	O-Ø mm	Pore size µm	Max. flow rate liquids[1] ml/min.	For pipes O-Ø inch	Design	Unit piece	Price EURO
83500	12.7	20	500	1/16“	frit, complete	1	70.00
83501	12.7	20	500	1/8“	frit, complete	1	70.00
83502	12.7	20	500		replacement frit	3	23.00

[1] Water (+20 °C)

THOMAPOR®-Cylinder Frit made of PTFE

Application area

- Suction filter for protection of pump systems, to protect seals, pistons and column packings from early wear due to contamination.

Product specification

- Large surface, therefore long holding time
- For use with all media due to material
- Dirt-repellent/non-adhesive
- Water-repellent/hydrophobic
- Antiadhesive (non-wettable)
- Delivered without hose and mapped ferrule

Technical specification

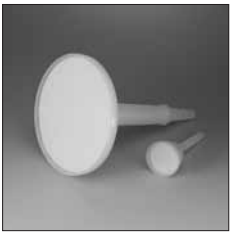
- **Material:** PTFE (polytetrafluoroethylene)
- **Temperature range:** -200 to +250 °C
- **Sterilization:** autoclavable (+121 °C)
- **Filter length:** 25 mm
- **Connecting thread:** UNF 1/4”-28 Gg

Item	Outside Ø mm	Pore size µm	For pipes outside Ø inch	Unit piece	Price EURO
302821	14	2	1/16“	1	128.00
302822	14	2	1/8“	1	128.00
302823	14	10	1/16“	1	105.00
302824	14	10	1/8“	1	105.00

THOMAPOR®-Immersion Filter made of HDPE

Product specification

- Made of high-pressure polyethylene. Direct application or with precoat layer for fine filtration. Large filter with barbed tubing connection.

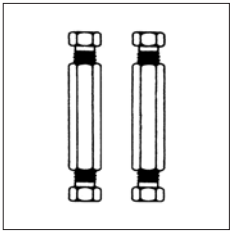


Item	Pore size µm	For tubing inside Ø mm	Ø filter mm	Length mm	Unit piece	Price EURO
50478	90 - 130	8.4 - 9	40	90	1	70.00
50479	90 - 130	11.5 - 16	125	150	1	106.00

THOMACHROM®-Fritted Filter made of Stainless Steel

Product specification

- Filter units for eluent polishing filtration in the high-pressure part of HPLC systems and for use as safety filters placed after the sample inlet valve to protect the column packing from contaminations out of eluent or sample.
- In-line filter system made of stainless steel with screwed 2 µm stainless steel frits, interchangeable without problems, low dead volume, high cut off. Frit diameters match optimally the connecting capillaries and through bores.



Item	For pipes outside Ø (A) inch	For pipes outside Ø (B) inch	Ø frit mm	Nominal width mm	Unit piece	Price EURO
83671	1/16“	1/32“	1.6	0.25	1	75.00
97640	1/16“	1/16“	1.6	0.5	1	45.00
83672	1/8“	1/16“	3.2	0.75	1	45.00
97641	1/8“	1/8“	3.2	2	1	45.00
83673[1]	1/4“	1/4“	6.4	4.6	1	45.00

[1] Frit is fixed, not interchangeable

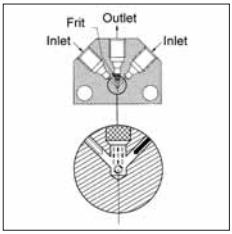
MULTIFIT®-High-Pressure Capillary Mixing Chamber for Media made of PEEK

Product specification

- Complete with fingertight fittings

Technical specification

- **Dead volume:** <4 µl
- **Counterpressure:** <1 bar at 1 ml/min.
- **Pressure stability:** 350 bar
- **Filter porosity:** 10 µm



Item	For pipes outside Ø inch	Max. op. pressure[1] bar	Internal thread	Price EURO
14734	1/16“	350	UNF 10-32	220.00

[1] at +20 °C

Prefilters and Filter Holders

THOMAPOR®-Disposable Filter Unit – hydrophilic, with integrated glass fibre prefilter

Application area

- Prefiltration and clarification of aqueous samples and solutions with a high content of suspended matter, especially for insertion in systems of precision analytics.

Product specification

- Disposable ready-to-use filter unit made of inert polypropylene, integrated glass-fibre prefilter, filter made of polyamide, on both sides tubing nozzle connection 6 to 10 mm and luer internal cone; temperature-resistant up to +80 °C, chemically sterilizable.

Item	Pore size µm	Ø filter mm	For tubing inside Ø mm	Unit piece	Price EURO
58583	0.45	50	6 - 10	6	72.00

THOMAPOR®-Disposable Mini Filter Unit – hydrophilic, with female luer-lock

Application area

- Clarification and fine filtration of aqueous samples and solutions in smallest volumes for precision analytics such as HPLC and capillary electrophoresis in areas of clinical chemistry, laboratory diagnostics, biochemistry, environmental chemistry, pharmacology and food processing chemistry.

Product specification

- Disposable, ready-to-use filter units with minimum dead volumes for syringes made of inert polyamide (Nylon), and integrated membrane filters made of the same material, temperature-resistant up to +80 °C, chemically sterilizable.

Item	Pore size µm	Ø filter mm	Dead volume ml	Outlet	Unit piece	Price EURO
58574	0.2	3	0.007	male luer	10	30.00
58575	0.45	3	0.007	male luer	10	30.00
58576	5	3	0.007	male luer	10	30.00

[1] at +20 °C

THOMAPOR®-Disposable Filter Unit made of Cellulose Derivatives - hydrophilic, with female luer-lock

Application area

- Clarification and prefiltration of aqueous samples and solutions in small volumes for precision analytics and synthetic chemistry.

Product specification

- Disposable, ready-to-use colour-coded filter units with minimum dead volumes for syringes and linear pumps with female luer-lock connection, made of inert polycarbonate (PC), and integrated membrane filters made of cellulose derivatives, filter area 5.7 cm^2, temperature-resistant up to +80 °C, chemically sterilizable.

Item	filter[1]	Pore size µm	Ø filter mm	Dead volume ml	Outlet	Colour	Unit piece	Price EURO
58577	CA	0.2	30	0.05	male luer	red	10	30.00
58579	CA	0.45	30	0.05	male luer	white	10	30.00
58580	CA	0.8	30	0.05	male luer	green	10	30.00
58581	CA	1.2	30	0.05	male luer	orange	10	30.00
58582	CN	5	30	0.05	male luer	black	10	30.00

[1] CA = cellulose acetat, CN = celllulose nitrate

THOMAPOR®-Disposable Filter Unit made of RC - hydrophilic, with female luer-lock

Application area

- Clarification and fine filtration of aqueous samples and solutions in small volumes used in precision analytics and in research areas of clinical chemistry, laboratory diagnostics, biochemistry, environmental chemistry, pharmacology and food processing chemistry.

Product specification

- Disposable, ready-to-use filter units with minimum dead volumes for syringes and linear pumps with female luer-lock, made of inert polypropylene (PP), and integrated membrane filters made of regenerated cellulose (RC), outlet male luer or pointed cone (mini-tip) for filtration in narrow-neck vessels; temperature-resistant up to +80 °C, chemically sterilizable.

Item	Pore size µm	Ø filter mm	Dead volume ml	Outlet	Unit piece	Price EURO
58568	0.2	13	0.01	mini-tip	10	30.00
58569	0.2	13	0.01	male luer	10	30.00
58570	0.2	30	0.05	male luer	10	30.00
58571	0.45	13	0.01	mini-tip	10	30.00
58572	0.45	13	0.01	male luer	10	30.00
58573	0.45	30	0.05	male luer	10	30.00

[1] at +20 °C

THOMAPOR®-Disposable Filter Unit - hydrophobic, with female luer-lock

Application area

- Filtration of small volumes of organic samples and solutions as well as of gases for precision analytics and preparative chemistry.

Product specification

- Disposable, ready-to-use filter units with minimum dead volumes for syringes and linear pumps with female luer-lock connection, colour-coded, made of inert polypropylene (PP), and integrated PTFE membrane filters, chemically sterilizable.

Item	Pore size µm	Ø filter mm	Dead volume ml	Outlet	Colour	Unit piece	Price EURO
58585	0.2	30	0.05	male luer	white	10	51.00
58586	0.45	30	0.05	male luer	green	10	51.00
58587	1	30	0.05	male luer	yellow	10	51.00
58588	5	30	0.05	male luer	grey	10	51.00

[1] at +20 °C

THOMAPOR®-Glass Fibre Filter

Product specification

- Glass fibre filter pipe permanently welded in a sealed plastic filter holder
- Use for liquid or gas filtration such as sterilization of compressed air and other gases.
- Retention capacity: Air or gas filtration: 99.99 % (0.6 µm particles); liquid filtration: 98 % (0.3 µm particles)
- Choice of porosity:
  For air and gas filtration: 25 or 8 µm
  Sterilization of air gas mixture: 0.3 or 0.9 µm
  Complete removal of oil and water: 2.0 µm

Technical specification

- **Material:**
  Filter holder: clear nylon
  Filter pipe: borosilicate glass with epoxy resin binder
- **Max. operating pressure:** 8.62 bar (at +43.3 °C)
- **Max. temperature:** +110 °C (at 0 bar)

Item	Pore size µm	Retention capacity[1] %	For tubing inside Ø mm	Unit piece	Price EURO
50402	8	99.5	6.4	5	195.00
50403	2	99.99	6.4	5	195.00
50404	0.9	100	6.4	5	195.00
50405	0.3	100	6.4	5	195.00

[1] retention capacity at 0.6 µm particles

THOMAPOR®-Prefilter made of PTFE with Luer-Lock for Syringes

Product specification

- The prefilter is to be easily extended to a multistep filter system (prefilter, main filter) by alignment of further filter units due to the Luer-Lock connection of the filters.
- Filter membrane easily exchangeable
- Very low dead volume
- Easy cleaning due to extremely smooth, antiadhesive surface
- Metal-free

Technical specification

- **Material:** PTFE (polytetrafluoroethylene)
- **Temperature range:** -200 to +250 °C
- **Sterilization:** autoclavable (+121 °C)
- **Max. operating pressure:** 20 bar
- **Connections:** Luer-Lock adapter (on both sides)

Item	Ø filter mm	Filter area cm²	Outside Ø housing mm	Unit piece	Price EURO
302867	13	0.78	21	1	152.00
302868	25	3.8	34	1	218.00

THOMAPOR®-In-Line Filter made of PTFE

Application area

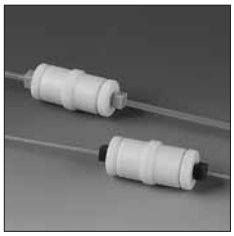
- Pressure prefilter for direct fine filtration before HPLC columns.

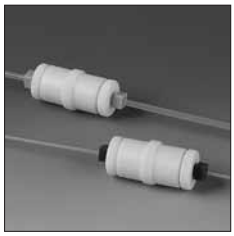
Product specification

- No dead volume
- Long operating time due to large filtering surface
- Due to material usable with all media
- For filter membrane Ø 13 mm and a thickness of 0.1 to 3 mm
- The membrane is interchangeable without using tools.

Technical specification

- **Material:** PTFE (polytetrafluoroethylene)
- **Temperature range:** -200 to +250 °C
- **Sterilization:** autoclavable (+121 °C)
- **Max. operating pressure:** 20 bar
- **Filter area:** 132 mm²
- **Connecting thread:** UNF 1/4”-28 Gg





Item	Ø filter mm	For pipes outside Ø inch	Length mm	Unit piece	Price EURO
302825	13	1/16“	44	1	150.00
302826	13	1/8“	44	1	150.00

THOMAPOR®-High-Chem Membrane Filter made of PTFE

Technical specification
- **Material:** PTFE (polytetrafluoroethylene), microporous
- **Temperature range:** -200 to +250 °C
- **Sterilization:** autoclavable (+121 °C)
- **Filter area:** 132 mm²

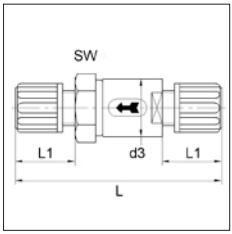
Item	Ø filter mm	Pore size µm	Thickness mm	Unit piece	Price EURO
302827	13	0.05	0.2	5	155.00
302828	13	0.2	0.2	5	155.00
302829	13	0.45	0.2	5	155.00
302830	13	5	0.2	5	155.00
302831	13	10	1	10	144.00

THOMAPOR®-In-Line Filter Module made of PP/PVDF/PFA

Application area
- Gas processing in analytical engineering
- Removal of solid matters from suspensions and aerosols in analytical chemistry

Product specification
- Low weight, small and compact filter module for the uncomplicated mounting in processing plants with tubing and piping
- Design "Standard": filter body made of polypropylene (PP) with good chemical resistance
- Design "High-Stable": filter body made of polyvinylidene fluoride (PVDF) with very good chemical stability, as well as great hardness and excellent dimensional stability
- Design "High-Chem": filter body made of perfluoralkoxy (PFA) with excellent chemical resistance

Technical specification
- **Material filter body:** PP (polypropylene), PVDF (polyvinylidene fluoride) oder PFA (perfluoralkoxy)
- **Material cartridge:** PTFE (polytetraflurooethylene)
- **Flow value Kv:** 0.12 m³/h = 120 l/h (water +5 to +30 °C, p = 1 bar)
- **Pressure stage:** PN 6
- **Connection:** for tubings inner diameter 4 mm, outer diameter 6 mm (DN 4/6)



Item	Pore size µm	Material housing	Material filter	NW mm	Unit piece	Price EURO
312894	5	PP	PTFE	4/6	2	46.00
312895	25	PP	PTFE	4/6	2	46.00
312896	50	PP	PTFE	4/6	2	46.00
312897	100	PP	PTFE	4/6	2	46.00
312902	5	PVDF	PTFE	4/6	1	48.00
312903	25	PVDF	PTFE	4/6	1	48.00
312904	50	PVDF	PTFE	4/6	1	48.00
312905	100	PVDF	PTFE	4/6	1	48.00
312910	5	PFA	PTFE	4/6	1	80.00
312911	25	PFA	PTFE	4/6	1	80.00
312912	50	PFA	PTFE	4/6	1	80.00
312913	100	PFA	PTFE	4/6	1	80.00

RCT®-Accessories: Replacement Filter Plates made of PTFE

Item	Pore size µm	Ø filter mm	Thick-ness mm	Material	Unit piece	Price EURO
312906	5	11.2	1	PTFE	1	8.00
312907	25	11.2	1	PTFE	1	8.00
312908	50	11.2	1	PTFE	1	8.00
312909	100	11.2	1	PTFE	1	8.00

THOMAPOR®-Filter Holder made of PC

Application area
- For ultrapurification and sterile filtration of small volumes

Product specification
- Particularly economic in price

Technical specification
- **Max. operating pressure:** 3.5 bar
- **Max. temperature:** +140 °C
- **Type:**
  420100: inlet male luer, outlet female luer-lock
  420200: inlet female luer-lock, outlet male luer
  420400: inlet female luer-lock, outlet NPT 1/4"-external thread, 1/4" ID tubing olive

420100, 420200, 420400

420400

Item	Ø filter mm	Filter area cm²	External thread	For tubing inside Ø mm	Price EURO
420100	13	0.8			19.00
420200	25	2.4			31.00
420400	47	11.3	NPT 1/4“	6.4	87.00

THOMAPOR®-Filter Holder made of POM with luers

Application area
- Ideally suited for separation of particles out of fluids, volumes amounting to 10 ml
- For filtration of biological media (eye drops, samples for HPLC, GC, also suited for filtration of lubricants)
- As end filter for gas filtration

Product specification
- Fits all standard syringes with luer connection
- Usable also with 20 mm prefilter allowing higher throughput by it

Technical specification
- **Connection:**
  Inlet: female luer-lock
  Outlet: male luer
- **Max. operating pressure:** 2.8 bar
- **Sterilization:** autoclavable (+121 °C)
- **Prefilter diameter:** 20 mm (only item 15550)

Item	Material housing	Material inserts	Material gasket	Max. temp. °C
15549	POM	POM	PTFE	121
15550	POM	stainless steel	FPM	65

Item	Ø filter mm	Filter area cm²	Dimensions ØxH mm	Unit piece	Price EURO
15549	13	0.8	16 x 35	1	69.00
15550	25	3.7	35 x 27	1	87.00

THOMAPOR®-Filter Holder made of POM - In-Line

Application area
- For in-line purification of air and gases and for fluid filtration

Product specification
- For direct integration in the line system
- Conical inlet gives rise to even sample distribution on the surface
- Also usable with 20 mm prefilter allowing higher throughput by it

Technical specification
- **Material:**
  Housing: POM (acetal resin)
  Support sieve: stainless steel 1.4401 (SS 316)
  Tubing olive: nylon (polyamide)
  O-ring: FPM
- **Filter diameter:** 25 mm
- **Prefilter diameter:** 20 mm
- **Effective filtering surface:** 3.7 cm² (22 mm diameter)
- **Overall length:** 20 mm
- **Filter holder diameter:** 35 mm
- **Connection:** In- and outlet adapter with NPT 1/8“ on 6.4 mm ID tubing olive
- **Max. temperature:** in air +85 °C, for a short time up to +121 °C, in water +65 °C
- **Max. operating pressure:** in air/gas 1.4 bar; in water 2.8 bar
- **Sterilization:** autoclavable (+121 °C)

Item	Ø filter mm	For tubing inside Ø mm	Internal thread	Unit piece	Price EURO
15551	25	6.4	NPT 1/8“	2	144.00

THOMAPOR®-Filter Holder made of POM - Open

Application area
- For microbiological monitoring and for particle analysis
- Aerosol filter holder serve for sampling in clean rooms
- For collection of breath air samples

Technical specification
- **Material:**
  Housing: POM (acetal resin)
  Support sieve: stainless steel 1.4401 (SS 316)
  Tubing olive: nylon (polyamide)
  O-ring: FPM
- **Filter diameter:** 25 mm
- **Effective filtering surface:** 3.7 cm²
- **Overall length:** 20 mm
- **Filter holder diameter:** 35 mm
- **Weight:** 20 g

- **Connection:** Inlet: open, Outlet: adapter with NPT 1/8“ on 6.4 mm ID tubing olive
- **Max. temperature:** +121 °C

Item	Ø filter mm	Unit piece	Price EURO
15552	25	2	144.00

THOMAPOR®-Filter Holder made of PP - In-Line

Application area
- For in-line purification of air and gases and for fluid filtration

Technical specification
- **Material:**
  Housing and support sieve: PP (polypropylene)
  O-ring: silicone
- **Max. temperature:** +128 °C (+80 °C for fluids)
- **Max. operating pressure:** 5 bar
- **Sterilization:** autoclavable (+121 °C)
- **Type:**
  15553: inlet female luer-lock, outlet male luer
  15554: inlet female luer-lock, outlet NPT 1/4“-external thread, 1/4“ ID tubing olive

Item	Ø filter mm	Ø prefilter mm	Filter area cm²	Dimesions ØxH mm	Unit piece	Price EURO
15553	25	21	3.5	32 x 32	1	50.00
15554	47	42.5	13.5	67 x 70	1	120.00

THOMAPOR®-Filter Holder made of PP - Open

Application area
- Ideal for air sampling

Technical specification
- **Material:**
  Housing: polypropylene
  Support sieve: polypropylene
  O-rings: PTFE
- **Filter diameter:** 47 mm
- **Prefilter diameter:** no data
- **Effective filtering surface:** 13.5 cm²
- **Overall length:** 51 mm
- **Filter holder diameter:** 63 mm
- **Weight:** 100 g
- **Connection:**
  Inlet: open
  Outlet: female luer-lock on 6.4 mm ID tubing olive
- **Max. temperature:** +128 °C (+80 °C for fluids)
- **Vacuum:** 1 bar
- **Sterilization:** autoclavable (+121 °C)

Item	Ø filter mm	Outlet	Unit piece	Price EURO
15555	47	female luer-lock	1	180.00

THOMAPOR®-Filter Holder made of PSU

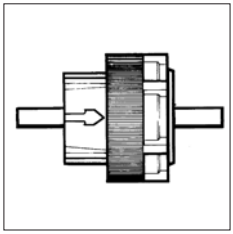
Application area
- For clarification, purification or sterile filtration of smallest fluid quantities with a syringe, allowing filtration in both directions.

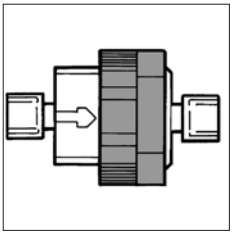
Technical specification
- **Material:** PSU (polysulfone)
- **Filter support:** flexible sieve perforation in the bottom part
- **Seal:** silicone O-ring
- **Max. operating pressure:** 7 bar
- **Max. temperature:** +180 °C
- **Sterilization:** autoclavable (+134 °C and 2 bar)
- **For adaption to:** 70775 - 70778

70757 70758

Item	Ø filter mm	Inlet	Outlet	For tubing inside Ø mm	Unit piece	Price EURO
70757	25	female luer-lock	male luer		5	92.00
70758	50	female luer-lock		12	1	67.00

THOMAPOR®-Filter Holder made of PFA





Application area
- Filter unit for individual problem solutions and for fixed mounting in complete systems.

Product specification
- Resistant to strongest organic and inorganic compounds.
- The highest permissive loadable temperature is +288 °C with approx. 2000 operating hours; with more than 2000 operating hours the loadable temperature is decreased to +260 °C.
- PFA is non-toxic and is safely to be used in the food processing industry. It is as unsuited as glass for propagation and growth of microorganisms.
- Available as four basic types with diameters 47; 50; 147 and 150 mm with different connecting combinations each. The respective size (diameter) is colour-coded. In filter holders with membrane diameters of 147 and 150 mm resp. the coloured outer edge of the top is 25 % glass fibre reinforced providing higher material stability.
- **Specification of connecting combinations:**
  1 inlet/outlet tubing connection 3/8“ outer diameter (OD)
  2 inlet with tubing connection 3/8“ OD; outlet with clamp fitting for tubing 1/4“ OD
  3 inlet with tubing connection 3/8“ OD, outlet with clamp fitting for tubing 3/8“ OD
  4 inlet with clamp fitting for tubing 1/4“ OD; outlet with tubing connection 3/8“ OD
  5 inlet with clamp fitting for tubing 3/8“ OD; outlet with tubing connection 3/8“ OD
  6 inlet with clamp fitting for tubing 1/4“ OD; outlet with clamp fitting for tubing 1/4“ OD
  7 inlet with clamp fitting for tubing 3/8“ OD; outlet with clamp fitting for tubing 3/8“ OD
  8 inlet/outlet tubing connection 1/2“ OD
  9 inlet with tubing connection 1/2“ OD; outlet with clamp fitting for tubing 1/4“ OD
  10 inlet with tubing connection 1/2“ OD; outlet with clamp fitting for tubing 3/8“ OD
  11 inlet with clamp fitting for tubing 1/4“ OD; outlet with tubing connection 1/2“ OD
  12 inlet with clamp fitting for tubing 3/8“ OD; outlet with tubing connection 1/2“ OD

Item	Type	Ø filter mm	Max. op. pressure[1] bar	Colour	Unit piece	Price EURO
72499	1	47	1.7	orange	1	169.00
72500	2	47	1.7	orange	1	179.00
72501	3	47	1.7	orange	1	179.00
72502	4	47	1.7	orange	1	179.00
72503	5	47	1.7	orange	1	185.00
72504	6	47	1.7	orange	1	190.00
72505	7	47	1.7	orange	1	195.00
72506	1	50	1.7	green	1	179.00
72507	8	50	1.7	green	1	179.00
72508	2	50	1.7	green	1	179.00
72509	9	50	1.7	green	1	179.00
72510	3	50	1.7	green	1	179.00
72511	10	50	1.7	green	1	185.00
72512	4	50	1.7	green	1	185.00
72513	11	50	1.7	green	1	185.00
72514	5	50	1.7	green	1	190.00
72515	12	50	1.7	green	1	195.00
72535	6	50	1.7	green	1	195.00
72536	7	50	1.7	green	1	200.00
72516	1	47	4.5	black	1	174.00
72517	2	47	4.5	black	1	179.00
72518	3	47	4.5	black	1	185.00
72519	4	47	4.5	black	1	179.00
72520	5	47	4.5	black	1	179.00
72521	6	47	4.5	black	1	190.00
72522	7	47	4.5	black	1	195.00
72523	1	50	4.5	brown	1	179.00
72524	8	50	4.5	brown	1	179.00
72525	2	50	4.5	brown	1	185.00
72526	9	50	4.5	brown	1	190.00
72527	3	50	4.5	brown	1	190.00
72528	10	50	4.5	brown	1	195.00
72529	4	50	4.5	brown	1	185.00
72530	11	50	4.5	brown	1	185.00
72531	5	50	4.5	brown	1	185.00
72532	12	50	4.5	brown	1	195.00
72533	6	50	4.5	brown	1	200.00
72534	7	50	4.5	brown	1	205.00

[1] at +20 °C

THOMAPOR®-Filter Holder made of Aluminium - In-line

Application area
- For in-line fluid filtration and for air and gas purification.

Technical specification
- **Material:**
  Housing: anodically oxidized aluminium
  Support sieve: high-quality steel 1.4401 (SS 316), electropolished
  Seal: PTFE
  O-ring: FPM
  Tubing olive adapter: polyethylene
- **Filter diameter:** 47 mm
- **Prefilter diameter:** 37 mm
- **Effective filtering surface:** 9.6 cm^2
- **Overall length:** 57 mm
- **Filter holder diameter:** 59 mm
- **Connection:** In- and outlet adapter with NPT 1/8“ on 6.4 mm ID tubing olive
- **Max. temperature:** limited to +121 °C by adapter
- **Max. operating pressure:** 13.8 bar
- **Sterilization:** autoclavable (+121 °C)

Item	Ø filter mm	For tubing inside Ø mm	Unit piece	Price EURO
15559	47	6.4	1	1,368.00

THOMAPOR®-Filter Holder made of Stainless Steel

Application area

- For clarification, purification or sterile filtration of smaller fluid volumes with a pressure control syringe allowing filtration in both directions.
- For adaption to THOMAPOR®-pressure control syringes 70770 to 70773.

Technical specification

- **Material:** stainless steel 1.4305
- **Design:** with sieve plate, electropolished, material no. 1.4401
- **Connection:** inlet: female luer-lock, outlet: male luer
- **Max. operating pressure:** 7 bar
- **Max. temperature:** +200 °C
- **Sterilization:** autoclavable (+121 °C); hot air (+160 °C)

Item	Ø filter mm	Filter area cm²	Max. flow rate liquids[1] ml/min.	Dimensions ØxH mm	Price EURO
70755	25	3	150	30 x 26	376.00

[1] Medium: water, membrane: 0.45 µm

Filter Modules

THOMAPOR®-Centrifugal Filter for Microfiltration

Application area

- Protein removal for HPLC analysis
- Bacteria and cell harvesting
- Concentration of oligos and nucleic acids
- Concentration of cell lysates and tissue homogenates
- Protein isolation out of cell-containing fluids (only membranes with pore size 0.2 µm)
- Particle isolation out of solvents
- Antibody and virus concentration
- Protein, DNA and RNA isolation out of geles

Product specification

- The insert is put into a commonly used centrifuge tube and filled with the sample. After the centrifugal action the filtrate is in the tube and the residue on the filter membrane.
- PET capillary pore membrane with defined pore sizes and minimum dead volume
- Defined retention volumes in the membrane filter, thus no drying out of the sample
- High safety during operation (no leakage due to welding of the membrane)
- High chemical resistance
- Supplied non-sterile, not autoclavable but sterilizable chemically
- Regulations: USP Class VI, EN ISO 9001

Item	Pore size µm	Max. volume ml	Tube size[1] ml	Unit piece	Price EURO
58865	0.2	0.5	1.5 - 2.2	25	98.00
58866	0.45	0.5	1.5 - 2.2	25	98.00
58871	0.2	5	15	25	168.00
58872	0.45	5	15	25	168.00
58878	0.45	20	50	25	216.00

[1] matches centrifuge tubes of the size indicated

THOMAPOR®-Centrifugal Filter for Ultrafiltration

Application area

- Protein removal for HPLC analysis
- Bacteria and cell harvesting
- Concentration of oligos and nucleic acids
- Concentration of cell lysates and tissue homogenates
- Protein isolation out of cell-containing fluids (only membranes with pore size 0.2 µm)
- Particle isolation out of solvents
- Antibody and virus concentration
- Protein, DNA and RNA isolation out of geles

Product specification

- Two-part system consisting of centrifuge tube (PP) and matching Omega® membrane (modified PET)
- High safety during operation

- Available in three sizes:
  nano: Filtration volume of 50 to 500 µl
  micro: Filtration volume up to 3.5 ml
  macro: Filtration volume up to 15 ml
- Supplied non-sterile, but sterilizable chemically

Technical specification

- **Dimensions:** nano: 1.4 x 4.5 cm (OD x L), micro: 1.7 x 9.3 cm (OD x L), macro: 2.9 x 10.9 cm (OD x L)
- **Concentrated volume:** nano: 15 µl
  micro: 30 - 50 µl (depending on rotor)
  macro: 0.5 - 1.5 ml (depending on rotor)
- **Retention volume:** nano: <5 µl, micro: 5 µl, macro: 0.03 ml
- **Max. centrifugal force:** nano: 14,000 x g, micro: 7500 x g macro: 5000 x g
- **Max. temperature:** +40 °C

Item	Type	Colour	Cut off kDalton	Effective filter area cm²	Unit piece	Price EURO
58867	nano	grey	3	0.28	12	98.00
58868	nano	blue	10	0.28	12	98.00
58869	nano	red	30	0.28	12	98.00
58870	nano	transparent	100	0.28	12	98.00
58873	micro	grey	3	0.46	12	168.00
58874	micro	blue	10	0.46	12	168.00
58875	micro	red	30	0.46	12	168.00
58876	micro	transparent	100	0.46	12	168.00
58879	macro	grey	3	10	6	216.00
58880	macro	blue	10	10	6	216.00
58881	macro	red	30	10	6	216.00
58882	macro	transparent	100	10	6	216.00

THOMAPOR®-Microanalytical Syringe Filter made of PP

Application area

- Clarification of aqueous and non-aqueous solutions in milliliter volumes for sample preparation in the area of analytical chemistry.

Product specification

- Metal-free syringe filters, small diameter and integrated outlet tip for rapid filtration in narrow-neck vessels; hydrophobic metal filters, compatible with almost all HPLC solvents, pore sizes 0.2 and 0.45 µm resp.; lowest dead volume, Luer syringe fitting; two sizes for volumes <5 ml (Type 1) and >5 ml (Type 2).
- THOMAPOR®-Microanalytical syringe filters made of polypropylene are usable as pressure or suction filter.

Technical specification

- **Material:**
  Housing: PP (polypropylene)
  Membrane: PP (polypropylene)
- **Filter area:** 0.8 or 3.9 cm²
- **Retention volume:** <8 µl with filter area 0.8 cm²; <30 µl with filter area 3.9 cm²
- **Max. operating pressure:** 5 bar
- **Max. temperature:** +50 °C

Item	Type	Pore size µm	Filter area cm²	Unit piece	Price EURO
15022	1	0.2	0.8	25	125.00
15023	1	0.45	0.8	25	125.00
15024	2	0.2	3.9	25	175.00
15025	2	0.45	3.9	25	175.00

Filter Housings and Filter Elements

THOMAPOR®-High-Tech Media Filter Housings and Filter Candles

Application area

- Laboratory and analytical technology, microelectronics, refrigerating technology plants, fuel conveyer systems, chemical process engineering, pneumatic and hydraulic systems, doctor's and dentist's offices, photographic laboratories
- For filtration, clarification and particle retention in chemical process solutions, etching baths, mineral oils, refrigerating media, lacquers and dyes, pneumatic pressure gases and air, hydraulic fluids, industrial water, photochemical solutions.

General product specification

- Chemical-resistant, mechanically stable, pressure- and temperature-loadable filter systems for fixed mounting in conveying lines for liquid and gaseous media, consisting of a two-part media-tightly screwable full-plastic filter housing made of polyamide or polyamide/trogamide combination. Available in two field-proven sizes for delivery capacities up to 1,500 l/h, optionally with handy drain screw on the housing bottom. Fine-filter candles made of polyethylene or straining filter candles made of nylon with graduated pore sizes between 5 and 350 µm are to be selected according to the intended application.

THOMAPOR®-High-Tech Media Filter Housing - low flow rate

Product specification

- Filter housing for small flow rates

Technical specification

- **Max. operating pressure:** 10 bar at +30 °C; 6 bar at +85 °C
- **Connections:** on both sides 1/4" NPT internal thread
- **Height:** 85 mm without drain screw; 105 mm with drain screw
- **Weight:** 50 g
- **Max. temperature:** +70 °C with PP design; +50 °C with trogamide design
- **Seal:** Buna-N
- **Colour:** blue (polypropylene); transparent (trogamide)

45730

45730

Item	Max. flow rate liquids[1] l/h	Design	Internal thread	Material top part	Material bottom part	Price EURO
45729	380	without drain	NPT 1/4“	PP	PP	42.00
45730	380	without drain	NPT 1/4“	PP	Trogamid	42.00
45731	380	with drain	NPT 1/4“	PP	Trogamid	58.00

[1] referring to water (+20 °C) and Δp = 0.2 bar

THOMAPOR®-High-Tech Straining Filter Candle made of Nylon - low flow rate

Product specification

- Heavy-duty filter candles made of nylon with PP retaining core, regenerable by backwashing or in the ultrasound bath, for THOMAPOR®-High-tech filter housing, items 45729 to 45731, with defined pore sizes.

Item	Pore size µm	Max. flow rate liquids[1] l/h	Unit piece	Price EURO
45732	40	180	3	33.00
45733	60	200	3	33.00
45734	80	230	3	33.00
45735	140	280	3	33.00
45736	200	300	3	33.00
45737	350	380	3	33.00

[1] referring to water (+20 °C) and Δp = 0.2 bar

THOMAPOR®-High-Tech Fine Filter Candle made of PE - low flow rate

Product specification

- Heavy-duty filter candles made of chemical-resistant polyethylene with retaining core for THOMAPOR®-High-tech filter housing, items 45729 to 45731.

Item	Pore size µm	Max. flow rate liquids[1] l/h	Unit piece	Price EURO
45738	5	60	1	37.00
45739	10	100	1	37.00
45740	25	160	1	37.00

[1] referring to water (+20 °C) and Δp = 0.2 bar

THOMAPOR®-High-Tech Micropore Filter Candle made of Glass Fibre

Product specification

- Heavy-duty micropore filter candles made of glass fibre with PP retaining core for THOMAPOR®-High-tech filter housing, items 45729 to 45731, with defined pore sizes.

Item	Pore size µm	Max. flow rate liquids[1] l/h	Unit piece	Price EURO
45768	0.3	10	1	40.00
45769	0.9	22	1	40.00
45770	2	35	1	40.00

[1] referring to water (+20 °C) and Δp = 0.2 bar

THOMAPOR®-High-Tech-Media Filter Housing - high flow rate

Product specification

- Filter housing for higher flow rates

Technical specification

- **Max. operating pressure:** 10 bar at +30 °C; 6 bar at +50 °C
- **Connections:** optionally on both sides 3/8“ or 1/2“ NPT internal thread
- **Height:** 165 mm without drain screw; 175 mm with drain screw
- **Weight:** 250 g
- **Max. temperature:** +70 °C with PP; +50 °C with SAN
- **Colour:** blue (polypropylene); transparent (SAN)
- **Seal:** Buna-N

Item	Max. flow rate liquids[1] l/h	Design	Internal thread	Material top part	Material bottom part	Price EURO
45741	800	without drain	NPT 3/8“	PP	SAN	94.00
45742	800	with drain	NPT 3/8“	PP	SAN	102.00
45743	800	without drain	NPT 1/2“	PP	SAN	94.00
45744	800	with drain	NPT 1/2“	PP	SAN	102.00

[1] referring to water (+20 °C) and Δp = 0.2 bar

THOMAPOR®-High-Tech-Straining Filter Candle made of Nylon - high flow rate

Product specification

- Heavy-duty filter candles made of nylon with PP retaining core, regenerable by backwashing or in the ultrasound bath, for THOMAPOR®-High-tech filter housing, items 45741 to 45744, with defined pore sizes.

Item	Pore size µm	Max. flow rate liquids[1] l/h	Unit piece	Price EURO
45745	40	420	1	26.00
45746	60	460	1	26.00
45747	80	520	1	26.00
45748	140	600	1	26.00
45749	220	700	1	26.00
45750	350	800	1	26.00

[1] referring to water (+20 °C) and Δp = 0.2 bar

THOMAPOR®-High-Tech-Fine Filter Candle made of PE - high flow rate

Product specification

- Heavy-duty filter candles made of acid-resistant polyethylene with retaining core for THOMAPOR®-High-tech filter housing, items 45741 to 45744.

Item	Pore size µm	Max. flow rate liquids[1] l/h	Unit piece	Price EURO
45751	5	140	1	31.00
45752	10	210	1	31.00
45753	25	370	1	31.00

[1] referring to water (+20 °C) and Δp = 0.2 bar

THOMAPOR®-Filter Housing made of PP

Technical specification

- **Material:** PP (polypropylene)
- **Seal:** Buna-N
- **Colour:** blue
- **Max. operating pressure:** 10 bar at +20 °C
- **Max. temperature:** +55 °C

Item	Length mm	Max. flow rate liquids[1] l/h	Internal thread	Dimensions ØxH mm	Price EURO
94482	125	500	NPT 3/8“	114 x 171	110.00
94445	254	1,000	NPT 3/8“	114 x 290	151.00
52851	254	1,500	NPT 3/4“	130 x 311	167.00
52852	508	3,000	NPT 3/4“	130 x 568	246.00

[1] Water (+20 °C), with filter element with 10 µm fineness

THOMAPOR®-Filter Housing made of SAN

Technical specification

- **Material:** SAN (styrene-acrylonitrile copolymer)
- **Seal:** Buna-N
- **Colour:** transparent
- **Max. operating pressure:** 10 bar at +20 °C
- **Max. temperature:** +55 °C

Item	Length mm	Max. flow rate liquids[1] l/h	Internal thread	Dimensions ØxH mm	Price EURO
94479	254	1,000	NPT 3/8“	114 x 290	172.00
52863	254	1,500	NPT 3/4“	132 x 320	187.00

[1] Water (+20 °C), with filter element with 10 µm fineness

THOMAPOR®-Filter Element with Non-Woven Fabric for technical use

Application area

- Filtration of dyes, lacquers, solvents, latex, fuel, lubricating oil, heating oil, diethanolamine, naphtha, petroleum, adhesive, water, perchloroethylene, trichloroethylene, gases, cutting and cooling emulsions, resins, roll emulsions.

Product specification

- Very high throughput and graduated deep-bed filtration
- Excellent dirt uptake capacity and high pressure stability
- Max. temperature: up to +120 °C, for a short time up to +140 °C
- The performance is indicated at a pressure difference of 0.15 bar and viscosities of 1 °E, 3.7 °E and 9.5 °E.
- Manufacturing process: the filter layers of the filter elements are very stable bonded with epoxy resin, thus guaranteeing the outstanding filtration properties.
- The filter elements fit following housings:
  Item 94482: filter length 125 mm
  Items 94445, 52851, 52853, 94479, 52863: filter length 250 mm

Item	Length mm	Filter fineness µm	Max. DR at 1 °E[1] l/h	Max. DR at 9.5 °E[1] l/h	Unit piece	Price EURO
12107	125	1	255	25	1	17.00
12108	125	5	675	65	1	17.00
12109	125	10	800	115	1	17.00
12110	125	25	900	135	1	17.00
12111	125	50	1,000	240	1	17.00
12112	125	100	1,000	300	1	17.00
53858	250	1	510	50	1	23.00
53859	250	5	1,350	130	1	23.00
53860	250	10	1,600	230	1	23.00
53861	250	25	1,800	270	1	23.00
53862	250	50	2,000	480	1	23.00
53863	250	100	2,200	600	1	23.00

[1] DR = delivery rate

THOMAPOR®-Filter Element with Non-Woven Fabric for pharmaceutical use

Application area

- Pharmaceutical industry
- Food processing and beverage industry
- Chemical industry and microelectronics

Product specification

- Very high throughput and graduated deep-bed filtration
- Excellent dirt uptake capacity and high pressure stability
- Max. temperature: up to +120 °C, for a short time up to +140 °C
- The performance is indicated at a pressure difference of 0.15 bar and viscosities of 1 °E, 3.7 °E and 9.5 °E.
- Manufacturing process: the filter layers of the filter elements are bonded with epoxy resin and therefore usable without limitations in pharmaceutical, food processing and beverage industries.
- The filter elements fit housings (items 94445, 52851, 52853, 94479, 52863)

Item	Length mm	Filter fineness µm	Max. DR at 1 °E[1] l/h	Max. DR at 9.5 °E[1] l/h	Unit piece	Price EURO
53851	250	1	510	50	1	43.00
53852	250	5	1,350	130	1	43.00
53853	250	10	1,600	230	1	43.00
53854	250	25	1,800	270	1	43.00
53855	250	50	2,000	480	1	43.00
53856	250	100	2,200	600	1	43.00

[1] DR = delivery rate

THOMAPOR®-Yarn Wound Filter Element

Application area

- Filtration in chemical and pharmaceutical industries, cosmetics industry, petroleum industry, food processing industry, paints and coatings industry, electroplating technology, water purification, nuclear power plant construction, as well as filtration of photographic fluids.

Product specification

- Excellent dirt uptake due to strongly structured, helically wound filter yarn
- Large yarn assortment allows use with many media
- High flow rate throughput combines great economic efficiency
- Selected quality yarns are wound on a retaining core by a special winding mode. The structure of the winding is carried out in such a way that the spiral tapers off inwards. By this special winding mode the yarn construction guarantees regularity of the filter structure and high dirt uptake capacity.
- Depending on the application area the filters are to be manufactured with yarns made of cotton, polypropylene or viscose and retaining cores made of polypropylene and stainless steel.
- **Application examples based on material polypropylene (PP):**
  For filtration of industrial water, drinking water, mineral water, condensates, deionized water, aqueous solutions (pH 3-9), electroplating baths (pH 3-9), electroplating baths (pH <3), fluoroborate baths, cyanide baths (alkaline), pyrophosphate baths, acids and alkalis (pH 0-14), hydrochloric acid, sulfuric acid, phosphoric acid, hydrofluoric acid, nitric acid, pickling and phosphatizing baths, radioactive solutions, photochemical baths, lyes, hydraulic oils, heating and diesel oils, petrols, lubricating oils, alcohols, glycerols, chlorine, hydrogen chloride, hydrogen fluoride, and other aggressive gases.
- **Application examples based on material cotton:**
  For filtration of industrial water, drinking water, mineral water, condensates, deionized water, aqueous solutions (pH 3-9), electroplating baths (pH 3-9), tin baths (alkaline), pyrophosphate baths, radioactive solutions, photochemical baths, solvents, degreasing baths, freons, hydraulic fluids, heating and diesel oils, petrols, lubricating oils, edible oils, edible fats, alcohols, glycerols, aggressive gases.
  The filter elements fit following housings:
  Item 94482: filter length 125 mm
  Items 94445, 52851, 52853, 94479, 52863: filter length 248 and 254 mm

Technical specification

- **Material:**
  Retaining core: polypropylene
  Yarn: cotton
- **Inside diameter:** 26 mm
- **Outside diameter:** 63 mm
- **Filter length:** 125 mm (5”), 248 mm (9 3/4”) and 254 mm (10”)
- **Max. temperature:** with retaining core made of polypropylene up to +80 °C; with retaining core made of stainless steel up to +130 °C
- **Performance:** see table (at a pressure difference of 0.15 bar and various viscosities)

Material support body: PP

Item	Length mm	Filter fineness µm	Max. DR at 1 °E[1] l/h	Yarn	Price EURO
58915	125	0.5	55	cotton	15.00
58916	125	1	75	cotton	15.00
58917	125	5	225	cotton	15.00
58918	125	10	360	cotton	15.00
58919	125	25	675	cotton	15.00
58895	125	50	1,000	cotton	15.00
58896	125	100	1,000	cotton	15.00
53872	248	0.5	107	cotton	19.00
53873	248	1	145	cotton	19.00
53874	248	5	440	cotton	19.00
53875	248	10	705	cotton	19.00
53876	248	25	1,325	cotton	19.00
53877	248	50	2,000	cotton	19.00
53878	248	100	2,000	cotton	19.00
53865	254	0.5	110	cotton	19.00
53866	254	1	150	cotton	19.00
53867	254	5	450	cotton	19.00
53868	254	10	720	cotton	19.00
53869	254	25	1,350	cotton	19.00
53870	254	50	2,000	cotton	19.00
53871	254	100	2,000	cotton	19.00
58897	125	0.5	55	PP	15.00
58898	125	1	75	PP	15.00
12073	125	5	225	PP	15.00
12074	125	10	360	PP	15.00
12075	125	25	675	PP	15.00
12076	125	50	1,000	PP	15.00
12077	125	100	1,000	PP	15.00
53886	248	0.5	107	PP	19.00
53887	248	1	145	PP	19.00
53888	248	5	440	PP	19.00
53889	248	10	705	PP	19.00
53890	248	25	1,325	PP	19.00
53891	248	50	2,000	PP	19.00
53892	248	100	2,000	PP	19.00
53879	254	0.5	110	PP	19.00
53880	254	1	150	PP	19.00
53881	254	5	450	PP	19.00
53882	254	10	720	PP	19.00
53883	254	25	1,350	PP	19.00
53884	254	50	2,000	PP	19.00
53885	254	100	2,000	PP	19.00
12078	125	0.5	55	viscose	15.00
12079	125	1	75	viscose	15.00
12080	125	5	225	viscose	15.00
12081	125	10	360	viscose	15.00
12082	125	25	675	viscose	15.00
12083	125	50	1,000	viscose	15.00
12084	125	100	1,000	viscose	15.00
53900	248	0.5	107	viscose	19.00
53901	248	1	145	viscose	19.00
53902	248	5	440	viscose	19.00
53903	248	10	705	viscose	19.00
53904	248	25	1,325	viscose	19.00
53905	248	50	2,000	viscose	19.00
53906	248	100	2,000	viscose	19.00
53893	254	0.5	110	viscose	19.00
53894	254	1	150	viscose	19.00

Item	Length mm	Filter fineness µm	Max. DR at 1 °E[1] l/h	Yarn	Price EURO
53895	254	5	450	viscose	19.00
53896	254	10	720	viscose	19.00
53897	254	25	1,350	viscose	19.00
53898	254	50	2,000	viscose	19.00
53899	254	100	2,000	viscose	19.00

[1] DR = delivery rate

Material support body: stainless steel

Item	Length mm	Filter fineness µm	Max. DR at 1 °E[1] l/h	Material yarn	Price EURO
12085	125	0.5	55	cotton	18.00
12086	125	1	75	cotton	18.00
12087	125	5	225	cotton	18.00
12088	125	10	360	cotton	18.00
12089	125	25	675	cotton	18.00
12090	125	50	1,000	cotton	18.00
12091	125	100	1,000	cotton	18.00
53915	248	0.5	107	cotton	22.00
53916	248	1	145	cotton	22.00
53917	248	5	440	cotton	22.00
53918	248	10	705	cotton	22.00
53919	248	25	1,325	cotton	22.00
53920	248	50	2,000	cotton	22.00
53921	248	100	2,000	cotton	22.00
53908	254	0.5	110	cotton	22.00
53909	254	1	150	cotton	22.00
53910	254	5	450	cotton	22.00
53911	254	10	720	cotton	22.00
53912	254	25	1,350	cotton	22.00
53913	254	50	2,000	cotton	22.00
53914	254	100	2,000	cotton	22.00
12092	125	0.5	55	PP	18.00
12093	125	1	75	PP	18.00
12094	125	5	225	PP	18.00
12095	125	10	360	PP	18.00
12096	125	25	675	PP	18.00
12097	125	50	1,000	PP	18.00
12098	125	100	1,000	PP	18.00
53929	248	0.5	107	PP	22.00
53930	248	1	145	PP	22.00
53931	248	5	440	PP	22.00
53932	248	10	705	PP	22.00
53933	248	25	1,325	PP	22.00
53934	248	50	2,000	PP	22.00
53935	248	100	2,000	PP	22.00
53922	254	0.5	110	PP	22.00
53923	254	1	150	PP	22.00
53924	254	5	450	PP	22.00
53925	254	10	720	PP	22.00
53926	254	25	1,350	PP	22.00
53927	254	50	2,000	PP	22.00
53928	254	100	2,000	PP	22.00
12099	125	0.5	55	viscose	18.00
12100	125	1	75	viscose	18.00

Item	Length mm	Filter fineness µm	Max. DR at 1 °E[1] l/h	Material yarn	Price EURO
12101	125	5	225	viscose	18.00
12102	125	10	360	viscose	18.00
12103	125	25	675	viscose	18.00
12104	125	50	1,000	viscose	18.00
12105	125	100	1,000	viscose	18.00
53943	248	0.5	107	viscose	22.00
53944	248	1	145	viscose	22.00
53945	248	5	440	viscose	22.00
53946	248	10	705	viscose	22.00
53947	248	25	1,325	viscose	22.00
53948	248	50	2,000	viscose	22.00
53949	248	100	2,000	viscose	22.00
53936	254	0.5	110	viscose	22.00
53937	254	1	150	viscose	22.00
53938	254	5	450	viscose	22.00
53939	254	10	720	viscose	22.00
53940	254	25	1,350	viscose	22.00
53941	254	50	2,000	viscose	22.00
53942	254	100	2,000	viscose	22.00

[1] DR = delivery rate

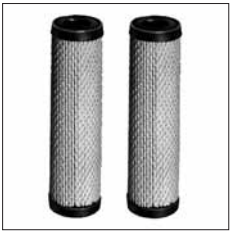
THOMAPOR®-Filter Cartridge with PVC Membrane

Application area

- For preparation of ultrapure water (18 Megohm quality with 0.2 µm pore size and 14 Megohm with 0.4 µm pore size)
- For recovery of noble metals in electroplating baths
- For filtration of drinking water, pharmaceuticals, food and beverages
- For sterile filtration

Technical specification

- **Material:**
  Membrane: high-temperature CPVC-polymer
  Retaining core: PP (polypropylene)
  End caps: flexible polyvinylchloride (PVC)
- **Cartridge length:** 248 mm (fitting housings: items 94445, 52851, 52853, 94479, 52863)
- **Cartridge diameter:** 70 mm
- **pH-range:** 1 - 11
- **Max. temperature:** +90 °C
- **Max. operating pressure:** 0.5 bar



Item	Pore size µm	Filter area m²	Max. flow rate water l/min.	Bubble Point bar	Unit piece	Price EURO
94444	0.4	1.5	13.5	0.15	1	109.00
94457	0.9	1.5	19	0.03	1	103.00

THOMAPOR®-Sintered Candle made of HDPE

Application area
- Filtration of gases and fluids for separation of particles (clarification, water filtration, catalyst recovery)
- Use of the porous structure and the chemical resistance (separation of emulsions, condensate separation, diaphragm in the electrochemistry)
- Gassing of fluids by homogenous injection (feeding of oxygen in water, formation of defined flux foam for soldering technology.

Product specification
- Resistance: alcohol, aliphatic hydrocarbons, organic compounds, alkalis, acids, salt solutions
- The filter elements fit following housings:
  Filter length 125 mm: item 94482
  Filter length 248 mm: items 94445, 52851, 52853, 94479, 52863
  Filter length 508 mm: items 52852, 12134
- Accessories: each sintered candle element has always to be built-in with two flat seals in the filter housing (12131-12133)

Technical specification
- **Material:** hydrophobic, porous polyethylene (HDPE)
- **Max. temperature:** +80 °C

Item	Length mm	Filter fineness µm	Porosity %	Permeability nPm	Unit piece	Price EURO
12119	125	2.5	35	30	1	73.00
12120	125	5	40	80	1	73.00
12122	125	20	40	180	1	73.00
12121	125	50	45	800	1	73.00
12123	248	2.5	35	30	1	101.00
12124	248	5	40	80	1	101.00
12126	248	20	40	180	1	101.00
12125	248	50	45	800	1	101.00
12127	508	2.5	35	30	1	171.00
12128	508	5	40	80	1	171.00
12130	508	20	40	180	1	171.00
12129	508	50	45	800	1	171.00

RCT®-Accessories: Flat Seals for Sintered Candle Elements

Item	Material	Dimensions mm	Unit piece	Price EURO
12131	NBR	70/40 x 3	2	16.00
12132	FPM	70/40 x 3	2	33.00
12133	PTFE	70/40 x 3	2	47.00

THOMAPOR®-Filter Element with Activated Carbon for Dehalogenating

Application area
- Dehalogenating of drinking water
- Removal of chlorine, bromine and iodine at low flow rates

Technical specification
- **Material:** activated carbon
- **pH range:** 5 - 10
- **Pressure drop:** 0.06 bar
- **Max. temperature:** up to +38 °C
- **The filter elements fit following housings:**
  Filter length 125 mm: housing with cat. no. 94482
  Filter length 248 mm: housings with cat. no. 94445, 52851, 52853, 94479, 52863

Item	Max. flow rate water l/min.	Length mm	Unit piece	Price EURO
94481	4	125	1	28.00
12106	4	254	1	37.00

THOMAPOR®-Adsorption Filter with Activated Carbon

Application area
- Decolourization of fluids such as drinking water, process water and waste water, aqueous solutions, organic solvents and non-oxidizing acids.
- Removal of adsorbable matters and contaminants out of fluids, vapours and gases (e.g. acrylic acid amides out of exhaust gases), removal of oil out of compressed air up to concentrations below 0.01 mg/m^3 (standard).
- Removal of flavours and odors out of fluids, gases and vapours
- Removal of ozone out of gases up to 0.03 mg/m^3 (standard)
- Dechlorination of water

Product specification
- Filter consisting of carbon-bound, sintered activated carbon, thus of chemically purest, biologically inert carbon
- The filter elements fit following housings:
  Filter length 125 mm: item 94482
  Filter length 250 mm: items 94445, 52851, 52853, 94479, 52863
  Filter length 500 mm: items 52852, 12134

Technical specification
- **Material density:** 0.7 g/cm^3
- **Mean pore size:** 20 µm
- **Porosity:** 63 %
- **Specific permeability:** 25 nPm
- **Bursting pressure strength:** >5 bar
- **Max. temperature:** +180 °C (in presence of air oxygen)
- **pH range:** 0 - 14

Item	Length mm	Inside Ø mm	Outside Ø mm	Unit piece	Price EURO
12281	120	30	70	1	135.00
12282	250	30	70	1	181.00
12283	500	30	70	1	269.00

THOMAPOR®-Filter Element with Activated Carbon - purification of water

Application area
- Purification of drinking water
- Purification of industrial water

Product specification
- All materials used for manufacturing the filter element meet the food law. The used special activated carbon guarantees a very good taste and odour improvement of the filtered water.
- The filter elements fit following housings:
  Filter length 125 mm: item 94482
  Filter length 248 and 254 mm: items 94445, 52851, 52853, 94479, 52863
  Filter length 496 and 500 mm: items 52852, 12134

Technical specification
- **Max. temperature:** +70 °C
- **Max. differential pressure:** 4 bar
- **Fineness:** 3-5 µm

Item	Length mm	Max. flow rate liquids[1] l/h	Outside Ø mm	Unit piece	Price EURO
53807	76	110	70	1	43.00
53808	102	150	70	1	43.00
53809	125	185	70	1	43.00
53810	152	220	70	1	43.00
53811	248	360	70	1	43.00
53812	254	365	70	1	43.00
53813	496	720	70	1	109.00
53814	508	735	70	1	109.00
53815	742	1,075	70	1	109.00
53816	762	1,100	70	1	109.00

[1] at 0.2 bar pressure and 1° E viscosity

THOMAPOR®-Filter Element with Activated Carbon - electroplating technology

Application area
- Filtration of noble metal baths in the electroplating technology

Product specification
- This special filter protects high-grade electrolytic baths for gold, silver and platinum from being contaminated by oils, fats and concomitant organic compounds.
- The filter elements fit following housings:
  Filter length 125 mm: item 94482
  Filter length 248 and 254 mm: items 94445, 52851, 52853, 94479, 52863
  Filter length 496 and 500 mm: items 52852, 12134

Technical specification
- **Max. temperature:** +70 °C
- **Max. differential pressure:** 4 bar
- **Fineness:** 3-5 µm

Item	Length mm	Max. flow rate liquids[1] l/h	Outside Ø mm	Unit piece	Price EURO
53829	76	110	70	1	35.00
53830	102	150	70	1	35.00
53831	125	185	70	1	35.00
53832	152	220	70	1	35.00
53833	248	360	70	1	35.00
53834	254	365	70	1	35.00
53835	496	720	70	1	78.00
53836	508	735	70	1	78.00
53837	742	1,075	70	1	95.00
53838	762	1,100	70	1	95.00

[1] at 0.2 bar pressure and 1° E viscosity

Fine Filter Systems made of PVDF and PTFE

THOMAPOR®-High-Tech Fine Filter System made of PVDF

Application area
- Continuous gas and fluid filtration in laboratory and industry

Product specification
- Casable, highly chemical-inert and biocompatible filter system made of PVDF for all kinds of aggressive gaseous and liquid media with heavy-duty glass fiber or sintered PTFE-filter elements; variable wall mounting, three field-proven system and cartridge sizes, with screwable filter casing.

Technical specification

- **Media contacting materials:**
  Filter top: PVDF
  Filter casing: tempered glass
  Filter candle: optionally sintered PTFE or glass fibre
  Sealing rings: FPM
- **Pore sizes (nominal):** 2 µm for glass fibre; 25 µm for sintered PTFE
- **Filter area:** 60 cm² for sintered PTFE filter element; 80 cm² for glass fibre filter element
- **Max. temperature:** +80 °C
- **Max. operating pressure:** 4 bar
- **Free volume:** 57 ml (dead volume)
- **Dimensions:**
  Overall height: depending on element
  Max. overall width: approx. 65 mm
- **Diameter filter bowl:** 40 mm
- **Connections:** G 1/4“
- **Weight:** approx. 0.25 kg

Item	Design[1]	Material filter	Filter area cm²	Pore size µm	Price EURO
15507	system	glass fibre	80	2	251.00
15508	system	sinter PTFE	60	2	305.00
15509	system	sinter PTFE	60	25	305.00
155101	filter element for 15507	glass fibre	80	2	42.00
155111	filter element for 15508, 15509	sinter PTFE	60	2	148.00
155121	filter element for 15508, 15509	sinter PTFE	60	25	148.00

[1] System: complete system, quick-acting closure, without condensate bleeder, filter element

THOMAPOR®-High-Chem Fine Filter made of PTFE for Front Panel Installation

Application area

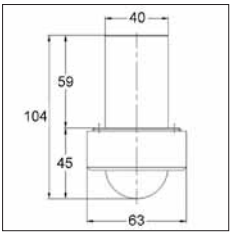
- Filter system for front panel installations.
- The filter can also be installed as a 19“ rack module in analysis systems.

Product specification

- Hose or pipe lines are placed behind the front panel.
- Filter is easily accessible from outside by release of the sight glass.
- The sight glass allows visual assessment of the contamination level from outside.
- At high contamination level the filter cartridges can be quickly and easily replaced by release of the sight glass at the front side.
- Accessories: THOMAPOR®-High-Chem PTFE filter cartridges with microporous structure.

Technical specification

- **Material:**
  Filter housing: PTFE (polytetrafluoroethylene)
  Filter candles: PTFE (with microporous structure)
  Filter casing: tempered glass
- **Filtration rating:** 5, 25, 50 or 100 µm
- **Filter surface:** 48 cm²
- **Max. temperature of medium:** +180 °C
- **Connection:** internal thread G 1/8“
- **Fastening thread:** M4x10



Item	Filter fineness µm	Max. flow rate gases[1] l/h	Price EURO
341683	5	900	344.00
341684	25	900	352.00
341685	50	900	360.00
341686	100	900	368.00

[1] Air (l/h at 0.1 bar)

RCT®-Accessories: High-Chem Filter Cartridge made of PTFE with Microporous Structure

Item	Filter fineness µm	Unit piece	Price EURO
341687	5	3	48.00
341688	25	3	51.00
341689	50	3	57.00
341690	100	3	63.00

To provide you with the best possible information about the application areas of our products, we take great care to give you a detailed, precise and technically up-to-date description.
However, please note, that we cannot be held liable for any errors. Any values given are recommendations only that have been tested under normal conditions.

We suggest, that you test the product under the appropriate conditions determined by your specific use of the application.

If you need any help, we will gladly share our experiences with you to give you further assistance.

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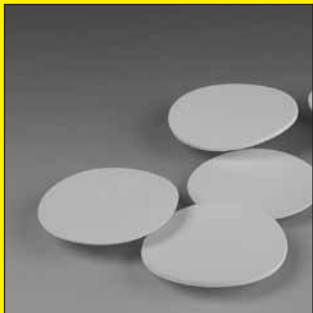

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