

Cartridge filtration

BECO PROTECT TS

The innovative depth filter cartridge solution

The unique BECO PROTECT TS depth filter cartridge combines two filter cartridge elements, thus offering significantly greater filter surface area with fine filter material. This innovation leads to lower blocking tendency, resulting in twice the filter service life compared with conventional standard filter cartridges.

Depth filter cartridges from the BECO PROTECT TS range are used in a variety of applications in the beverage and food industry.

Characteristics and advantages

The specific advantages of BECO PROTECT TS:

- ▶ Filter service life doubled
- ▶ 100 % more filter surface area with fine filter material
- ▶ Higher throughput at lower differential pressure
- ▶ Substitute for more expensive pleated depth filter cartridges, hence better cost-effectiveness
- ▶ Safe (absolute) and gentle filtration
- ▶ High dirt holding capacity
- ▶ Back-washable up to 2 bar at 80 °C
- ▶ High chemical resistance due to 100 % polypropylene

Materials used

Filter material:	polypropylene
Internal and external support body:	polypropylene
End caps/adapters:	polypropylene with reinforcing ring
O-rings:	silicone (standard)

All materials used meet the requirements of USP-XXII Class VI-121°C and are thermoplastically bonded without the use of adhesives.

Technical data

Diameter	69 mm
Maximum operating temperature	80 °C
Max. pressure difference	4.8 bar at 25°C 2.0 bar at 80°C
Steam sterilization	Max. 1 bar (121 °C); 30 min.
Chemical regeneration/sterilization	can be sterilized with conventional chemical cleaners

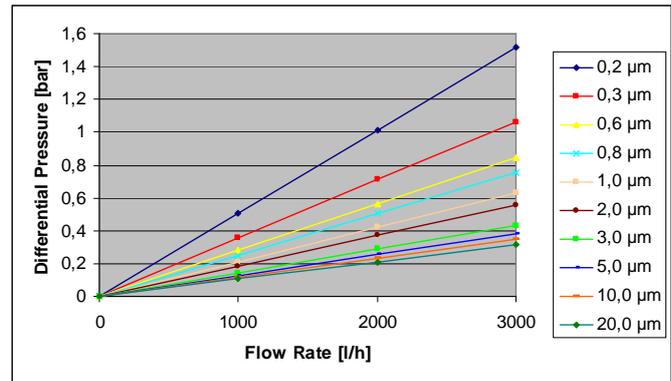


Filter types/retention rates

absolute (β ratio > 5000)

Filter type	Retention rate
TS002	0.2 μ m
TS003	0.3 μ m
TS006	0.6 μ m
TS008	0.8 μ m
TS010	1.0 μ m
TS020	2.0 μ m
TS030	3.0 μ m
TS050	5.0 μ m
TS100	10 μ m
TS200	20 μ m

Water flow rate
10" element with water at 20 °C



Ordering information

Depth filter cartridges with protective foil in carton

Filter type	Retention rate	Adapter	Length	Gasket
TS	002 = 0.2 µm	0 = Code 0	2 = 20"/50 cm	S = silicone
	003 = 0.3 µm	2 = Code 2	3 = 30"/75 cm	
	006 = 0.6 µm	5 = Code 5	4 = 40"/100 cm	
	008 = 0.8 µm	7 = Code 7		
	010 = 1.0 µm			
	020 = 2.0 µm			
	030 = 3.0 µm			
	050 = 5.0 µm			
	100 = 10.0 µm			
	200 = 20.0 µm			

Example:

TS	006	7	2	S
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BECO PROTECT TS
0.6 µm retention rate; Code 7; 20"; silicone gasket

Adapter codes

Code 7	Code 2
2-226 O-ring 2-way bayonet adapter with centering tip	2-222 O-ring 3-way bayonet adapter with centering tip
Code 5	Code 0
2-222 O-ring with centering tip	2-222 O-ring without centering tip

HS customs tariff: 8421 99 00

Safety

When used and handled correctly, there are no known unfavorable effects associated with this product. BECO PROTECT TS depth filter cartridges do not require the provision of safety-relevant information. There are no known risks to humans or the environment during storage, handling and transport.

Disposal

BECO PROTECT TS depth filter cartridges should be treated as industrial waste. Any local and other official regulations must be followed.

Storage

BECO PROTECT TS depth filter cartridges should be stored in their original packaging, and in a dry and odor-free place. Never store the product near evaporating chemicals, oils or fuels etc. The filter cartridges should be used within 2 years after delivery.

Certified Quality

During the production process, BECO PROTECT TS depth filter cartridges are monitored constantly to ensure consistently high quality.

The materials used meet the requirements of the German Health Authority (BGA) and the US Food and Drug Administration (FDA).



Reg. No. 000480 QM

All information is given to the best of our knowledge. However, please understand that the information cannot be guaranteed for every application, working practice or operating condition. Misuse of the product will result in all warranties being voided.

Please do not hesitate to contact us if you have further questions. You may either call your regional sales manager or BEGEROW direct on +49 67 04 2 04 0-1.

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Subject to change in the interest of technical progress.