

Cartridge Filtration

BECO PROTECT® PB Filter Cartridges

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BECO PROTECT® PB depth filter cartridges consist of thermally bonded, melt-blown polypropylene filter material. The physical strength of the BECO PROTECT® PB depth filter cartridges is such that no external and internal support cores are required. The material used has high chemical resistance. The BECO PROTECT® PB depth filter cartridges are available with retention rates between 0.5 µm and 100 µm, and are optimized for the requirements of pre-filtration of beverages. BECO PROTECT® PB depth filter cartridges are characterized by high dirt holding capacities and long dwell times. The BECO PROTECT® PB depth filter cartridges can be used for the coarse filtration of wine, beer, water and other liquids.

Characteristics and Advantages

The specific advantages of BECO PROTECT® PB:

- ▶ High dirt holding capacity
- ▶ Low differential pressure
- ▶ High chemical resistance
- ▶ Pressure surge resistance

Configuration of the Filter Cartridge

BECO PROTECT® PB depth filter cartridges are made from high-quality, melt-blown polypropylene micro-fibers and have a broad chemical compatibility. All materials used ensure product-neutral filtration without adsorption or particle migration. The BECO PROTECT® PB depth filter cartridges therefore meet the requirements of the customer in terms of safe, gentle filtration of his products.

Materials used:

Filter material:	polypropylene micro-fibers
End caps/adapters:	polyethylene

Polypropylene materials used meet the FDA requirements according to 21 CFR § 177.1520.

Filter Cartridges Types/Nom. Retention Rates

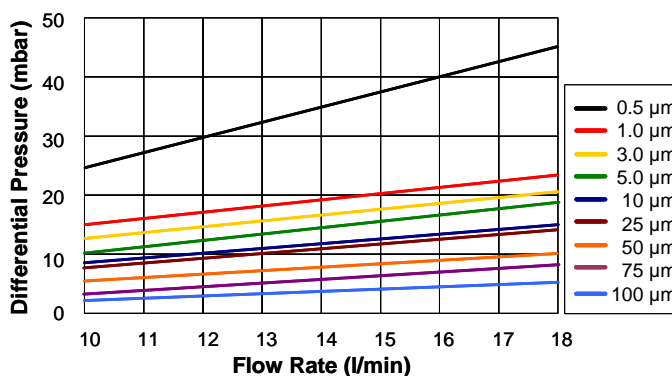
Filter cartridge type	Retention rate [µm]
PB005	0.5
PB010	1.0
PB030	3.0
PB050	5.0
PB100	10.0
PB250	25.0
PB500	50.0
PB750	75.0
PB999	100.0

Technical Data

Diameter:	63 mm (2.48 in)
Inside diameter:	28 mm (1.18 in)
Max. operating temperature:	65 °C (149 °F)
Max. differential pressure:	3.2 bar (46.4 psid) at 20 °C (68 °F) 1.2 bar (17.4 psid) at 60 °C (140 °F)

Nom. Length for Code F, X	
9 =	9 ¾" 248 mm
1 =	10" 254 mm
7 =	19 ½" 500 mm
2 =	20" 508 mm
8 =	29 ½" 750 mm
3 =	30" 762 mm
6 =	39" 992 mm
4 =	40" 1016 mm

**Flow Rate (recommended values)
10" element with water at 20 °C (68 °F)**



Ordering Information

Filter cartridges with protective foil

HS customs tariff: 8421 99 00

Filter cartridge type	Nom. retention rates	Adapter	Nom. length	Packing Unit
PB	005 = 0.5 µm	F = Code F with PE gasket	9 = 9 3/4"	6
	010 = 1.0 µm	X = Code X without gasket	1 = 10"	
	030 = 3.0 µm		7 = 19 1/2"	
	050 = 5.0 µm		2 = 20"	
	100 = 10.0 µm		8 = 29 1/2"	
	250 = 25.0 µm		3 = 30"	
	500 = 50.0 µm		6 = 39"	
	750 = 75.0 µm		4 = 40"	
	999 = 100.0 µm			

Example:

PB	005	F	1	6
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BECO PROTECT® PB depth filter cartridge 0.5 µm retention rate, Code F, 10"

Adapter Codes

Code X	Code F
Without adapter	2 PE flat gasket



Safety

When used and handled correctly, there are no known unfavorable effects associated with this product. BECO PROTECT® PB 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® PB depth filter cartridges should be treated as industrial waste. Any local and other official regulations must be followed, taking the product to be filtered into account.

Storage

BECO PROTECT® PB depth filter cartridges should be stored in their original packaging, and in a dry, odor-free and UV ray protected 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® PB depth filter cartridges are monitored constantly to ensure consistently high quality.



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