

### Masterfilter APK series

The Masterfilter *PreFil* APK series absolute rated polypropylene cartridges provide absolute efficiency and reliable performance in most critical applications. It combines high dirt holding capacity with long service life and high flow rates.

100% polypropylene construction and backwash capability make the APK an ideal filter for beverage applications like beer filtration.

### Applications

- Pharmaceuticals
- Beer filtration
- Food and Beverage
- Water purification
- Chemicals
- Clarify filtration

### Features and Benefits

- High dirt holding capacity
- Pleated surface provides excellent flow rate and long service life
- Absolute rating from 0.2 to 20 microns
- 100% PP offers compatibility with most chemicals, solvents caustic and acids
- Pleated surface provides excellent flow rates

### Materials of Construction

- Membrane: Polypropylene
- Support layers: Polypropylene
- Inner core: Polypropylene
- Outer cage: Polypropylene
- End caps: Polypropylene
- O-rings: Silicone, EPDM, PTFE, Viton, FEP

### Operating Parameters

- Maximum operating pressure: 6.9 bar at 25 °C, 4.0 bar at 60 °C, 2.4 bar at 80 °C
- Maximum differential pressure: 6.9 bar at 25 °C, 4.0 bar at 60 °C, 2.4 bar at 80 °C
- Steam sterilisation: 20 cycles for 30 minutes at 125 °C (0.3 bar)
- Effective filtration area: 0.6 m<sup>2</sup> 10" module



### Quality Assurance

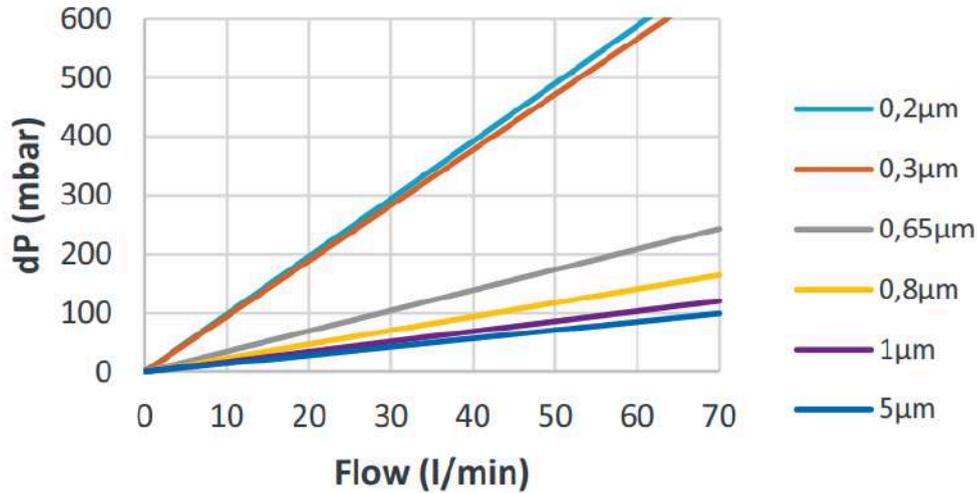
- Comply with the relevant requirements of EU 1935/2004 and EU Directive 10/2011
- Cartridges are marked with unique serial number for identification and traceability

### Biological Standards

- All component materials meet the FDA Indirect Food Additive requirements cited in 21 CFR 177-182
- Meet the criteria of the USP <88> Biological Reactivity Test for Class VI-121°C plastics
- Aqueous extraction of autoclaved filter contains < 0.25 EU/mL as determined by Limulus Amebocyte Lysate (LAL), USP <85>
- Extractable level after 24h contact with PW < 5 mg/10" module
- Component materials meet the criteria for a "Non-fiber-releasing filter" as a defined in 21 CFR 210.3 (b) (6).

## Flow Rate Characteristics

### Flow rate



Note: 10" cartridge tested with water @20°C, 1,005 cP (typical flow rate)

## Part Numbers

APK

0100

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10

-

HSF

-

S

Code	Removal rating
	[µm]
0020	0.2
0030	0.3
0050	0.5
0065	0.65
0080	0.8
0100	1
0300	3
0500	5
1000	10
2000	20

Code	Length	
	[mm]	[inch]
05	122	05
10	254	10
20	508	20
30	762	30
40	1016	40

Code	End caps
STC	Sartorius code 28
HTC	222 O-ring/flat (Code 3)
HTF	222 O-ring/fin (Code 8)
HSC	226 O-ring/flat (Code 2)
HSF	226 O-ring/fin (Code 7)
HSH	UF retrofit
DOE	Double Open End
STT	126 O-rings (T-style)
HST	P-MCY4463 Sart-15

Code	O-rings
S	Silicone
E	EPDM
P	PTFE enc. Viton
V	Viton
T	FEP enc. Silicone

e.g. part number: APK0100-10-HSF-S

APK filter with 1 µm, 10" Length, Code 7 End caps, Silicone O-rings