

**Masterfilter APKM series** absolute multi-layered polypropylene cartridges combines depth filter technology with pleated filter technology, ensure high contaminant holding capacity and large filtration area. APKM construction adopts depth filter technology of graded pore-size avoiding filter surface jam.

Graded pore-size distribution from coarse (upstream) to fine (downstream) can remove particles, colloids and gels gradually and extend filter's service life.

### Application

- Fermentation
- Food & Beverage
- APIs
- Fine Chemicals



### Features and Benefits

- High contaminant holding capacity
- Graded pore-size (5-7 PP layers) provides excellent flow rate and long service life
- Absolute rating from 0.2 to 70 microns
- Efficiency: 99,98%
- Low pressure drop
- 100% PP offers compatibility with most chemicals, solvents caustic and acids

### Food and Biological Safety

- Comply with the relevant requirements of EU 1935/2004 and EU Directive 10/2011
- Comply with FDA 21 CFR177-182 & EU 1935/2004/EC
- Meets USP <88> for Class VI-121°C
- Non-Pyrogenic per USP Bacterial Endotoxin Level (<0,25 EU/ml)
- Extractable level after 24h contact with PW <20mg/10" module
- Meets FDA21 CFR210.3(B)(6) no fiber release for filters

# APKM Series

## Filter cartridges



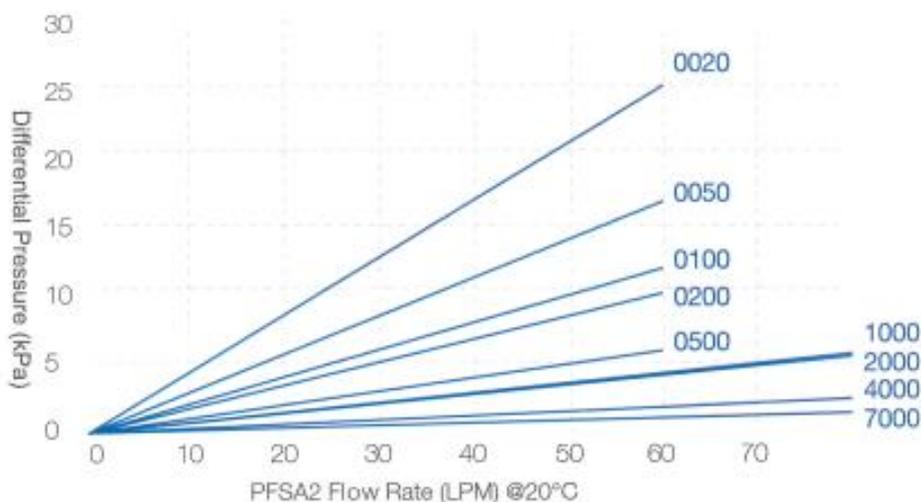
### Materials of Construction

- **Membrane:** Polypropylene
- **Support Layers:** Polypropylene
- **Inner Core:** Polypropylene
- **Outer Cage:** Polypropylene
- **End Caps:** Polypropylene
- **O-Ring:** EPDM/Silicone/Viton

### Operating Parameters

- **Max. temperature:** 80°C
- **Max differential pressure:** 5,0 bar (21°C) 2,0 bar (80° C)
- **Steam sterilization:** up to 20 cycles (125°C for 30min@30kPa per cycle)
- **Hot water sterilisation:** 85°C – 30 min. @ max. differential pressure 2,0 bar

### Flow Rate Characteristics



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### Part Numbers

#### APKM

Code	Removal rating micron (absolute)	length		Code	end caps	Code	O-Rings
		mm	inch				
0020	0,2	127	5	DOE	Double open end	S	Silicone
0050	0,5	254	10	STC	Sartorius code 28	E	EPDM
0100	1,0	508	20	HTC	222 O-ring/flat (Code 3)	V	Viton
0200	2,0	762	30	HTF	222 O-ring/fin (Code 8)		
0500	5,0	1016	40	HSF	226 O-ring/fin (Code 7)		
1000	10,0			HSH	UF retrofit		
2000	20,0						
4000	40,0						
7000	70,0						