ABSO-MATE™ PLEATED DEPTH FILTER CARTRIDGE

All polypropylene, absolute-rated, cost-effective filtration

Parker's Abso-Mate™ Cartridges provide the ultimate in economical filtration for even the most critical process fluids. The proprietary melt blown media is rigidly controlled for reliable results time after time. Abso-Mate cartridges are produced without adhesives that can potentially contaminate fluids.

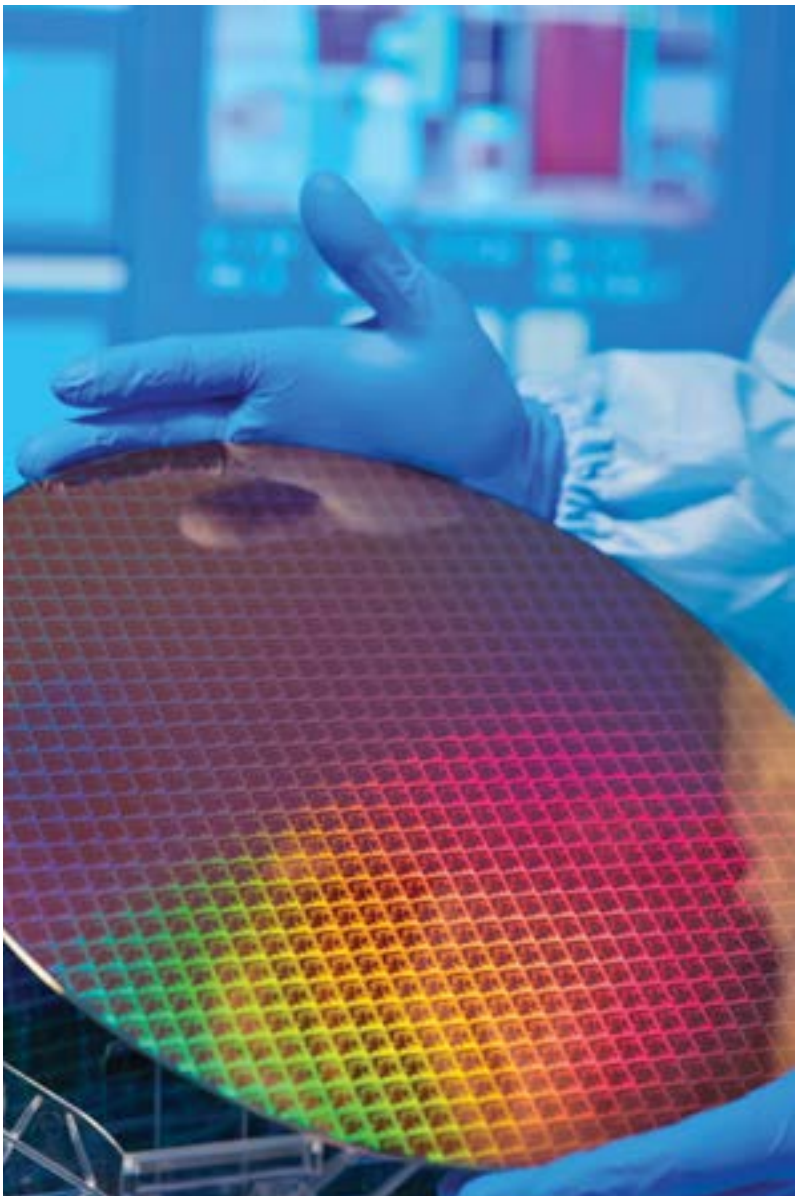
Abso-Mate Pleated Cartridges are available in 0.2µm, 0.45µm, 1µm, 2µm, 5µm, 10µm, 20µm, 40µm, and 70µm absolute rated pore sizes.

Benefits

- Absolute ratings for consistent and reliable performance (99.98%; ß = 5000)
- Back-washable media, reduces replacement maintenance and cartridge disposal costs
- Abso-Mate cartridges are non-fiber releasing and contain minimal extractables
- All materials of construction are FDA listed as acceptable for potable and edible liquid contact according to CFR Title 21
- One-piece construction eliminates bypass concerns on multi-length cartridges
- All-polypropylene construction offers wide chemical compatibility with most chemicals, acids, bases and solvents
- Fused construction and continuous lengths eliminate the need for adhesives and allow accurate bubble point integrity testing
- ISO 9001 registered company

Applications

- Membrane Prefilter
- Chemicals
- Catalyst Recovery
- Precious Metal Recovery
- Waste Water



ABSO-MATE™ PLEATED DEPTH FILTER CARTRIDGE

Specifications

Materials of Construction

Type of Construction: Integrally sealed, all-polypropylene pleated media supported by all-polypropylene construction

Filter Media: Melt blown polypropylene microfiber

Media Support Layers: Non-woven or mesh polypropylene

Media Support Core: Heavy wall high strength polypropylene

Media Support Cage and Thermally Welded End Caps: Molded polypropylene

Seal Materials: Buna-N, EPR, Silicone, Viton®, PFA Encapsulated Viton®

Dimensions

Cartridge Outside Diameter: 2-11/16 in.
Cartridge Inside Diameter: DOE: 1-1/16 in., SOE: 1-5/32 in.

Maximum Recommended Operating Conditions

Temperature: 200°F (93°C)
Change Out ΔP: 35psi (2.4bar)
ΔP @ Ambient 70°F (21°C): 90psi (6bar)
ΔP @ 200°F (93°C): 20psi (1.4bar)
Flow Rate: 10gpm (38 lpm) per 10 in. length

Biological Safety/Product Purity

- All components FDA listed per CFR, Title 21
- Non-fiber releasing per FDA Part 210.3B (5) and (6)
- Non-photo sensitive

Filtration Ratings

99.98% efficiency at 0.2, 0.45, 1, 2, 5, 10, 20, 40, & 70 µm pore sizes.

$$\text{Beta Ratio } (ß) = \frac{\text{Upstream Particle Count @ Specified Particle Size and Larger}}{\text{Downstream Particle Count @ Specified Particle Size and Larger}}$$

$$\text{Percent Removal Efficiency} = \left(\frac{ß-1}{ß}\right) 100$$

Performance determined per ASTM F-795-88. Single-Pass Test using AC test dust in water at a flow rate of 3.5gpm per 10 in. (13.2 lpm per 254 mm) cartridge.

Performance Attributes

Flow Rate and Pressure Drop Formulas

$$\text{Flow Rate (gpm)} = \frac{\text{Clean } \Delta P \times \text{Length Factor}}{\text{Viscosity} \times \text{Flow Factor}}$$

$$\text{Clean } \Delta P = \frac{\text{Flow Rate} \times \text{Viscosity} \times \text{Flow Factor}}{\text{Length Factor}}$$

Notes:
1. Clean ΔP is psi differential at start.
2. Viscosity is centistokes. Use Conversion Tables for other units.
3. Flow Factor is psid/gpm at 1cks for 10 in. (or single).
4. Length Factors convert flow or ΔP from 10 in. (single length) to required cartridge length.

Abso-Mate Flow Factors
(psid/gpm @ 1 cks)

Rating (µm)	Flow Factor
0.20	3.100
0.45	1.000
1	0.750
2	0.300
5	0.072
10	0.031
20	0.021
40	0.012
70	0.008

Abso-Mate Length Factors

Length (in)	Length Factor
9	1.0
10	1.0
19	2.0
20	2.0
29	3.0
30	3.0
39	4.0
40	4.0

Liquid Particle Retention Ratings (µm) @ Removal Efficiency of:

Cartridge	ß=5000 | Absolute	ß=1000 | 99.9%	ß=100 | 99%	ß=50 | 98%	ß=20 | 95%
PAB002	0.2	<0.2	<0.2	<0.2	<0.1
PAB004	0.45	0.4	0.2	<0.2	<0.1
PAB010	1	0.8	0.4	<0.2	<0.1
PAB020	2	1.9	0.8	<0.2	<0.1
PAB050	5	3.8	1.4	0.4	0.15
PAB100	10	7	2	0.5	0.25
PAB200	20	13	4	1.8	0.35
PAB400	40	22	7	3.2	0.8
PAB700	70	52	22	15	5.5

Ordering Information

PAB - ▢ - ▢ - ▢ ▢ ▢

Filter Rating	
CODE	MICRON
002	0.2
004	0.45
010	1
020	2
050	5
100	10
200	20
400	40
700	70

Nominal Length		
CODE	INCHES	MM
9	9 5/8	244
10	9 13/16	249
19	19 5/8	498
20	19 15/16	506
29	29 1/4	743
30	30 1/16	764
39	39	991
40	40	1016

Support Construction	
CODE	MATERIAL
F	Glass-filled Polypropylene (core only)
G	304 Stainless Steel (core only)
A	Natural Polypropylene (All support components)

Seal Material	
CODE	MATERIAL
P	Polyethylene Foam (DOE gasket only)
E	EPR
N	Buna-N
S	Silicone
T[1]	PFA Encapsulated Viton® (222, 226 & O-ring only)*
V	Viton®
X	No seal material

[1]PFA/Viton is O-ring only, T is expanded PTFE gaskets

End Cap Configuration	
CODE	DESCRIPTION
AR	020 O-ring/ Recessed cap
DO	Double open end (DOE)
DX	Double open end/ extended core
LL[2]	120/120 (Filterlite LMO & Nuclepore Polymeric Vessels)
LR[2]	120 O-ring/Re-cessed (Nuclepore)
OB	Std. open end/ Polypropylene spring closed end
PR[2]	213 O-ring/ Recessed cap (Ametek® & Parker LT Polymeric Vessels)
SC	226 O-ring/Flat
SF	226 O-ring/Fin
SSC	SS inserted 226 O-ring/Closed
SSF	SS inserted 226 O-ring/Fin
TC	222 O-ring/Flat
TF	222 O-ring/Fin
STC	SS inserted 222 O-ring/Closed
STF	SS inserted 222 O-ring/Fin
TX	222 O-ring/Flex Fin
XB	Ext. core open end/Polypropylene spring closed end

[2]Available only in 9 5⁄8" (-9) and 19 5⁄8" (-10) lengths

Special Options	
CODE	DESCRIPTION
B	Bubble-point test
R	DI water rinse (5 min.)
Z6	Individual Poly bag only

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DS_ME_Abso-Mate_2025_Rev. A

WARNING: This product can expose you to chemicals including 1,3-Butadiene which are known to the state of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov