



POLYROLLED® DEPTH FILTERS

Rolled polypropylene microfiber for pigment-based inks, ceramic inks, and disperse ink jet inks final filtration

POLYROLLED® DEPTH FILTER

POLYPROPYLENE MICROFIBER FOR FINAL FILTRATION OF PIGMENT-BASED INKS, CERAMIC INKS, AND DISPERSE INK JET INKS

PolyRolled® Depth Filters are made of continuously rolled polypropylene microfiber (for a total of 56 layers). The outer layers are constructed of graded pore sizes, while the inner layers are uniform. This provides a large filter depth for particulate capture and high efficiency.

Highly recommended for pigment-based inks, ceramic inks, and disperse ink jet inks filtration.

FEATURE	BENEFIT
Nanofiber media with 56 layers of continuously rolled microfiber	Provides high contaminant hold capacity and high removal efficiency at low pressure drop
	>99% particle retention efficiency at rated pore size
	56-layer configuration allows high contaminant removal efficiency while providing an extremely long life time while maintaining high removal efficiency
	Provides oil-absorption effect for final ink composition for items such as resin, solvent, and other additives
	All polypropylene construction provides excellent compatibility with most ink chemistries
	Inner polypropylene core increases filter pressure endurance capability
Quality Assurance	Manufactured in a facility which adheres to ISO 9001 Practices. 100% Integrity tested and lot traceable.
Particle shedding	Autoclaved filter effluent meets the requirements in USP <788> for large volume parenterals.
Non-fiber release	Component materials meet the criteria for a "Non-fiber-releasing filter" as defined in 21 CFR210.3 (b) (6).

SPECIFICATIONS

Filter media	Rolled Polypropylene Microfiber
Support layer	Polypropylene
Supports/core/cage/end caps	Polypropylene
O-rings	Silicone, EPDM, FKM, FEP/PFA encapsulated FKM
Diameter	68 mm
Max. operating temperature	80°C
Max. differential pressure	0.40 MPa (4.0 bar, 58 psi) at 21°C 0.21 MPa (2.1 bar, 30.5 psi) at 80°C



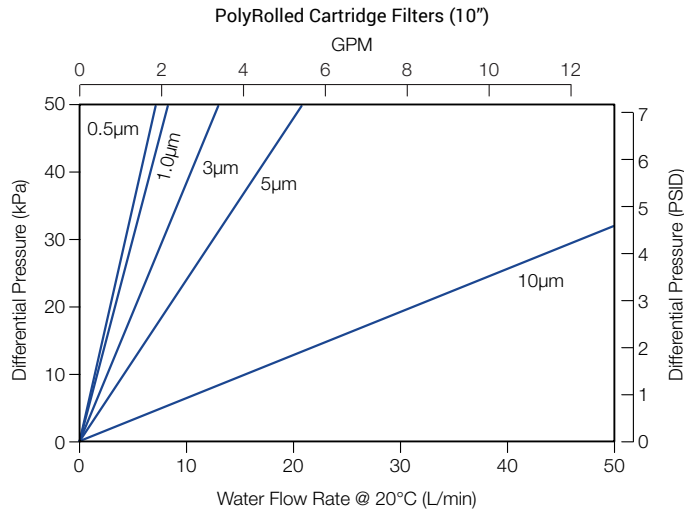
Typical Applications

- Pigment Inks
- Dye-based Inks
- UV Inks
- Ceramic Inks
- Disperse Inks

RETENTION

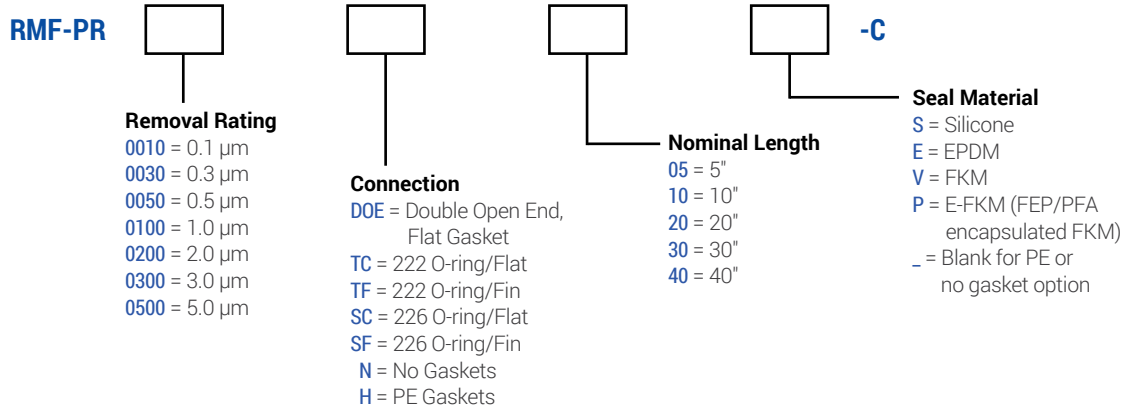
Particle Range	Filter Code			
	0010 (0.1 µm)	0030 (0.3 µm)	0050 (0.5 µm)	0100 (1.0 µm)
≥0.2 µm	99.99%	97.78%	93.87%	-
≥0.5 µm	100%	99.87%	99.92%	90.45%
≥1.0 µm	100%	100%	99.99%	99.00%
≥3.0 µm	100%	100%	100%	99.99%
≥5.0 µm	100%	100%	100%	100%

FLOW RATES



ORDERING INFORMATION

EXAMPLE: **RMF-PR0030SF10E-C** = 0.3 µm, 226/Fin, 10" length filter with EPDM seals



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