

Final filtration with a combination of PP nano fiber and super fine glass micro fiber, for pigment-based inks, dye-based inks, and ceramic ink jet inks

ULTRAPORE® FILTER CARTRIDGES

POLYPROPYLENE NANO FIBER OUTER-LAYER AND SUPER FINE GLASS MICRO FIBER INNER LAYER, FOR FINAL INK FILTRATION

Ultrapore® Filter Cartridges are used as a final filtration for pigment-based inks, dye-based inks, and ceramic ink jet inks. The polypropylene nano fiber outer layers provide high flow rates, and the multi-layers of super fine glass micro fiber contribute to high efficiency.

FEATURE	BENEFIT
Polypropylene nano fiber outer layer over multi-layers of super fine glass micro fibers	Provides high contaminant hold capacity and high removal efficiency at low pressure drop >99.9% particle retention efficiency at rated pore size
	Multi-layer configuration with pre-filtration layer allows high contaminant removal efficiency while providing an extremely long life time while maintaining high removal efficiency for small particle removal
	Unique heat solidification technology bonds fibers together to prevent fiber release
	Glass fiber media has high contaminant holding capacity and inherently adsorptive effect which enables excellent retention capabilities
	PP + GF media provides excellent compatibility with most ink chemistries
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	Nano fiber media (polypropylene and glass fiber)
Support layer	Polypropylene/Nylon mesh
Supports/core/cage/end caps	Polypropylene
O-rings	Silicone, EPDM, FKM, FEP/PFA encapsulated FKM
Effective filtration area	0.24 m ² (2.6 ft ²)/ φ68-10 inch
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



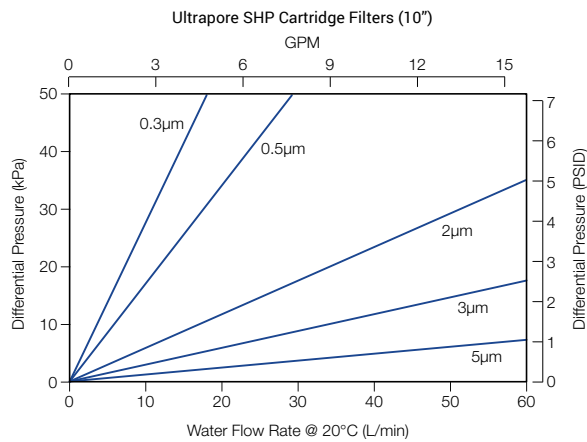
Typical Applications

- Pigment Inks
- Dye-based inks
- Ceramic Inks

RETENTION

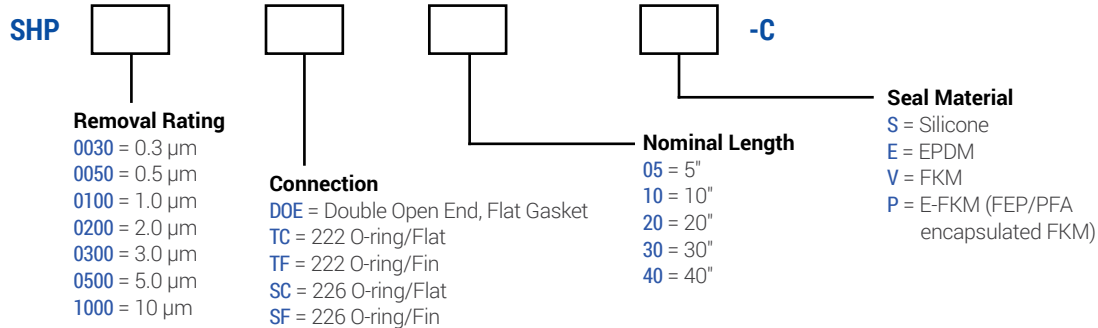
Particle Range	Filter Code				
	0030 (0.3 µm)	0050 (0.5 µm)	0100 (1 µm)	0300 (3 µm)	0500 (5 µm)
≥0.2 µm	98.38%	96.65%	-	-	-
≥0.5 µm	99.99%	99.91%	92.75%	-	-
≥1.0 µm	100%	99.99%	99.88%	-	-
≥2.0 µm	100%	100%	99.99%	85.73%	68.35%
≥3.0 µm	100%	100%	100%	99.92%	79.47%
≥5.0 µm	100%	100%	100%	100%	99.90%

FLOW RATES



ORDERING INFORMATION

EXAMPLE: **SHP0100SF10E-C** = hydrophobic, 1.0 µm, 226/Fin, 10" length filter with EPDM seals



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