

FILTERITE® NEXIS® T SERIES

FILTER CARTRIDGES

- Patented* CoLD® (Co-Located Large Diameter) Fiber Technology
- Continuously Gradient Pore Structure Provides both Pre-filtration and Final Filtration
- Proprietary Center Core for Greater Mechanical Strength and Chemical Resistance
- Resists Contaminant Unloading even at High Differential Pressures
- Computer Controlled CoLD Manufacturing Process Increases Product Consistency
- 100% Polypropylene Construction
- Free of Surfactants, Binders, and Adhesives
- Easy and Safe Cartridge Incineration and Disposal

Performance Specifications

Retention Ratings:

0.5, 1, 3, 5, 7, 10, 15, 20, 25, 30, 40, 50, 75, 100, 120, 150, 200 µm

Maximum Differential Pressure:

15 psid (1.03 bar) @ 180° F (82° C)

30 psid (2.07 bar) @ 150° F (66° C)

60 psid (4.14 bar) @ 86° F (30° C)

Recommended Changeout Differential Pressure:

35 psid (2.41 bar)

FDA Listed Materials:

All materials meet U.S. Food and Drug Administration requirements for food and beverage contact.

Toxicity:

All cartridge components meet USP-XXIII, Class VI toxicity criteria. They are safe for use in pharmaceutical applications.

Surfactants/Binders:

Nexis filter cartridges are free of surfactants, binders, and adhesives.

Product Specifications

Materials of Construction:

Filter Medium: Polypropylene

Center Core

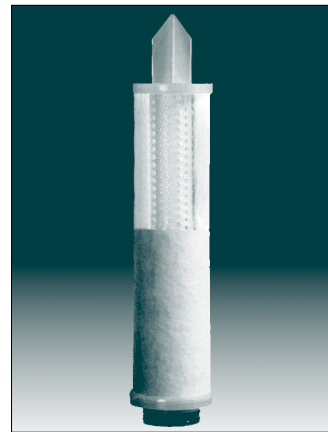
and Endcaps: Polypropylene

Gaskets/O-rings: Silicone, Buna N, Viton A, EPDM,
Polyethylene (DOE only)

Dimensions:

Length: 10", 20", 30", 40" (25.4, 50.8, 76.2, 102 cm) [nominal]

Diameter: 2.5" (6.4 cm) [nominal]

**Autoclaving:**

Single open end Nexis cartridges can be autoclaved for 30 minutes at 121° C under no end load conditions. However, they should be allowed to cool to normal operating temperature prior to use.

Steam Sterilization:

Not recommended.

Rinse-up:

Cartridge will rinse-up to 18 Megohm-cm with a minimum of throughput.

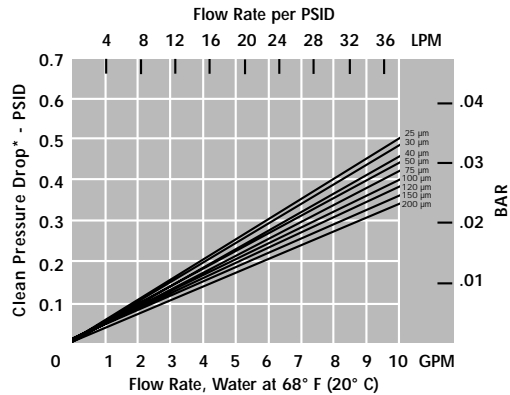
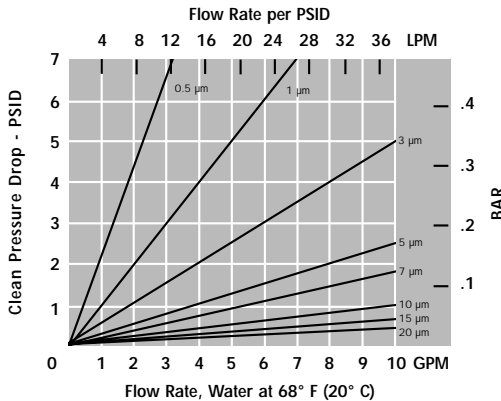
* U.S. Patent Nos. 5,591,335; 5,653,833;
5,681,469; 5,690,782; 5,730,820;
5,733,581; 5,741,395; 5,783,011; and
5,910,229

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FILTER CARTRIDGES

USF Filtration & Separations Group's patented CoLD fiber technology is designed to assure efficient use of the entire gradient depth of the filter. The proprietary CoLD MELT[®] process produces a mixture of micro-thin fibers intermingled and thermally bonded with large diameter CoLD fibers to provide an integral support and fluid transport network. The large internal void area created by the CoLD process enables Nexis cartridges to capture more contaminant than conventional cartridges while the rigid support fibers hold the filtration fibers firmly in place. The result is no random unloading of contaminant and more efficient filtration under a variety of operating conditions.

Flow Rate vs. Initial Clean Pressure Drop



* Due to the very low flow resistance of the media in the more open grades, pressure drop is primarily related to turbulent loss through the center core. Flow Rate is per 10" cartridge. For liquids other than water, multiply the pressure drop by the fluid viscosity in centipoise.

Ordering Information

NX T 5 -10 U -DOE S

Nexis Series

T = Standard Grade

Retention Ratings:
0.5, 1, 3, 5, 7, 10, 15, 20,
25, 30, 40, 50, 75, 100, 120,
150, 200 µm

Cartridge Lengths:
4", 5", 9.75", 9.875", 10", 19.5",
20", 29.25", 30", 39", 39.5", 40"

Center Core:
U = Polypropylene

Gasket or O-ring Material:

S = Silicone N = Buna N V = Viton A E = EPDM

End Configurations:

- No Symbol – Double open end industrial (no endcaps)
- 1X – Double open end industrial, 1" extended core
- M3 – SOE flat closed end, external 222 O-rings (replaces Pall code 3, MILLIPORE[®] code 0)
- M3H – SOE with external 222 O-rings, large diameter closed end
- M5 – Double open end, internal O-rings (replaces NUCLEPORE[®] O-ring)
- M6 – SOE flat closed end, external 226 O-rings (replaces Pall code 2, Millipore code 6)
- M7 – SOE fin end, external 226 O-rings (replaces Pall code 7, Millipore code 7)
- M8 – SOE fin end, external 222 O-rings (replaces Pall code 8, Millipore code 5)
- M10 – Double open end, internal O-rings (fits Ametek housings)
- M11 – SOE flat closed end, internal 120 O-rings (replaces Nuclepore X style and Gelman G style)
- M20 – SOE with internal O-rings (same as M10), closed end with deep recess
- DOE – Double open end with elastomer gasket seal and endcaps
- PE – Double open end, polyethylene gasket seal
- DOE-1X – Double open end with elastomer gasket seal, 1" extended core
- PE-1X – Double open end with polyethylene gasket seal, 1" extended core



USF FILTRATION & SEPARATIONS GROUP INC.
REGISTERED NO. A20411



USF FILTRATION & SEPARATIONS GROUP INC.
REGISTERED NO. J0A-QM0209



USF FILTRATION & SEPARATIONS GROUP INC.
REGISTERED NO. F14223917

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Supplied in New Zealand by Contamination Control Ltd

environment company
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