



NEXIS® C Series Filter Cartridges

Advanced Melt Blown Technology for High Performance Particle Classification

- Optimized Media Pore Gradient Structure for Sharp Particle Size Classification
- Features Proprietary CoLD Fiber Technology
- Longer Filter Life with Low Pressure Drops for Reduced Filter Usage
- High Porosity for Excellent Flow Characteristics
- Resists Contaminant Unloading Even at High Differential Pressure
- Automated Manufacturing Process Increases Product Consistency
- Filter Grades from 1 to 100 Microns
- Increased Batch Processing Rates with High Throughput Efficiencies
- Improved Product Yields
- High Removal Efficiencies of Solid and Deformable Particles

Performance Specifications

Filter Grades:

1, 5, 8, 10, 20, 30, 40, 50, 75, 100 µm

Maximum Differential Pressure:

75 µm: 25 psid (1.72 bard) @ 140°F (60°C)
50 psid (3.45 bard) @ ambient

All Other Grades: 15 psid (1.03 bard) @ 180°F (82°C)
25 psid (1.72 bard) @ 150°F (66°C)
60 psid (4.14 bard) @ 86°F (30°C)

Recommended Change Out Differential Pressure¹:

35 psid (2.4 bard)

Toxicity:

All polypropylene components meet the specifications for biological safety as per the **USP** for Class VI-121°C plastics (gaskets/O-rings excluded).

Purity:

Nexis C Series filter cartridges are free of adhesives, binders, resins and silicone.

Product Specifications

Materials of Construction:

Filter Media: Melt Blown Polypropylene (CoLD Technology)
100 µm: Spiral Wrapped Melt Blown Sheets (ARD Technology)

Hardware: Polypropylene

Support Material: Polypropylene (100 µm only)

Gaskets/O-rings: Silicone Elastomer, EPDM, Viton² A, Buna N, Santoprene³ (DOE only), FEP Encapsulated Silicone, FEP Encapsulated Viton A

Dimensions (nominal):

Outside Diameter: 2 ½" (6.4 cm)

Lengths: 4" (10.2 cm), 5" (12.7 cm),
9 ¾" (24.8 cm), 9 ⅞" (25.1 cm),
10" (25.4 cm), 19 ½" (49.5 cm),
20" (50.8 cm), 29 ¼" (74.3 cm),
30" (76.2 cm), 39" (99.1 cm),
39 ½" (100.3 cm), 40" (102 cm)



Target Applications

Automotive Coatings: Clear & Base Coats, Primers, E - Coats
Lacquers
Pigmented Inks
Magnetic Coatings
Architectural Coatings
Photoemulsions
Industrial Coatings
Slurries

Liquid Retention Ratings (µm) (by ASTM F-795 Test)

Cartridge Designation	90% Efficiency	>99.9% Efficiency
NXC 1	1	2
NXC 5	5	11
NXC 8	8	17
NXC 10	10	20
NXC 20	20	29
NXC 30	30	51
NXC 40	40	62
NXC 50	50	80
NXC 75	70	90
NXC 100	85	100

Nexis C Series filter cartridge retention ratings are based on Pall's Dynamic Efficiency test protocol. This single pass, destructive challenge test is based on ASTM F-795 test procedures for determining the performance of a filter medium. A narrow distribution test dust (0 - 20 µm) was used as the test contaminant for filters 1 to 50 micron. Coarse test dust was used as the contaminant for the 75 and 100 micron filters. Additional information can be obtained by contacting Pall Corporation.

¹ - Provided that the maximum differential pressure is not exceeded based on temperature limits defined above.

² - Registered trademark of DuPont Dow.

³ - Registered trademark of Advanced Elastomer Systems.

