

## Nexis® A Filter Cartridges

### For Clarification and Particle Removal

Nexis A filter cartridges are high performance melt blown depth filters ideal for use in rigorous food and beverage clarification and particle removal applications.

### Description

Nexis A series high efficiency depth filter cartridges are constructed using an advanced, microprocessor-controlled CoLD Melt™ production process that permits the creation of multiple filtration zones within a single filter cartridge. The multi-zone design produces a gradient pore structure which effectively captures larger particles in the outer sections of the filter cartridge while providing highly efficient and consistent removal of smaller particles in the inner sections.

Interlocking and thermally bonded large diameter support fibers combined with ultra-thin filtration fibers create a rigid filter matrix that withstands dynamic operating conditions. A high internal void volume enables the capture of more contaminant than conventional melt-blown, string wound or molded filter cartridges.

The result is a high performance, low cost of ownership cartridge characterized by robustness in operation, long service life, and excellent removal efficiency.

Features	Benefits
Fixed fiber matrix with interlocking, thermally bonded support and filtration fibers	<ul style="list-style-type: none"> <li>• Excellent removal efficiency</li> <li>• Consistent filtration performance</li> <li>• No unloading of contaminants</li> </ul>
Micro-thin fibers with continuous graded pore structure provide pre- and fine filtration in the same cartridge	<ul style="list-style-type: none"> <li>• High void volume for high dirt holding capacity and long service life</li> <li>• Economical cost per filtered volume</li> <li>• Lower disposal costs</li> </ul>
Proprietary high strength center core	<ul style="list-style-type: none"> <li>• Reliable even under high differential pressure conditions</li> </ul>
All polypropylene construction without adhesives, binders, resins or silicone	<ul style="list-style-type: none"> <li>• Broad chemical compatibility, suitable for use in a variety of fluids</li> </ul>



Nexis A Filter Cartridges

### Materials of Construction

Component	Description
Filter Medium	Polypropylene
Core, Fin End and End Cap	Polypropylene
<b>SOE Style Cartridges only</b>	
Adaptor	Polypropylene
O-Ring Seal	Silicone Elastomer Ethylene Propylene Rubber

### Quality

- Cartridges produced in a controlled environment
- Manufactured within a Quality Management System certified to ISO 9001:2008

### Food Contact Compliance

Please refer to the Pall website [www.pall.com/foodandbev](http://www.pall.com/foodandbev) for a Declaration of Compliance to specific National Legislation and/or Regional Regulatory requirements for food contact use.

# Technical Information

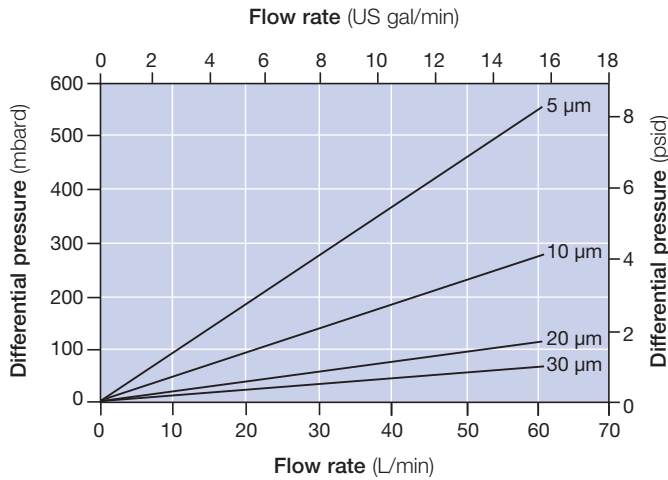
## Operating Characteristics in Compatible Fluids<sup>1</sup>

Maximum Differential Pressure <sup>2</sup>	Operating Temperature
1.03 bard (15 psid)	82 °C (180 °F)
1.72 bard (25 psid)	66 °C (150 °F)
4.14 bard (60 psid)	30 °C (86 °F)

<sup>1</sup> Fluids which do not swell, soften or adversely affect any of the filter components

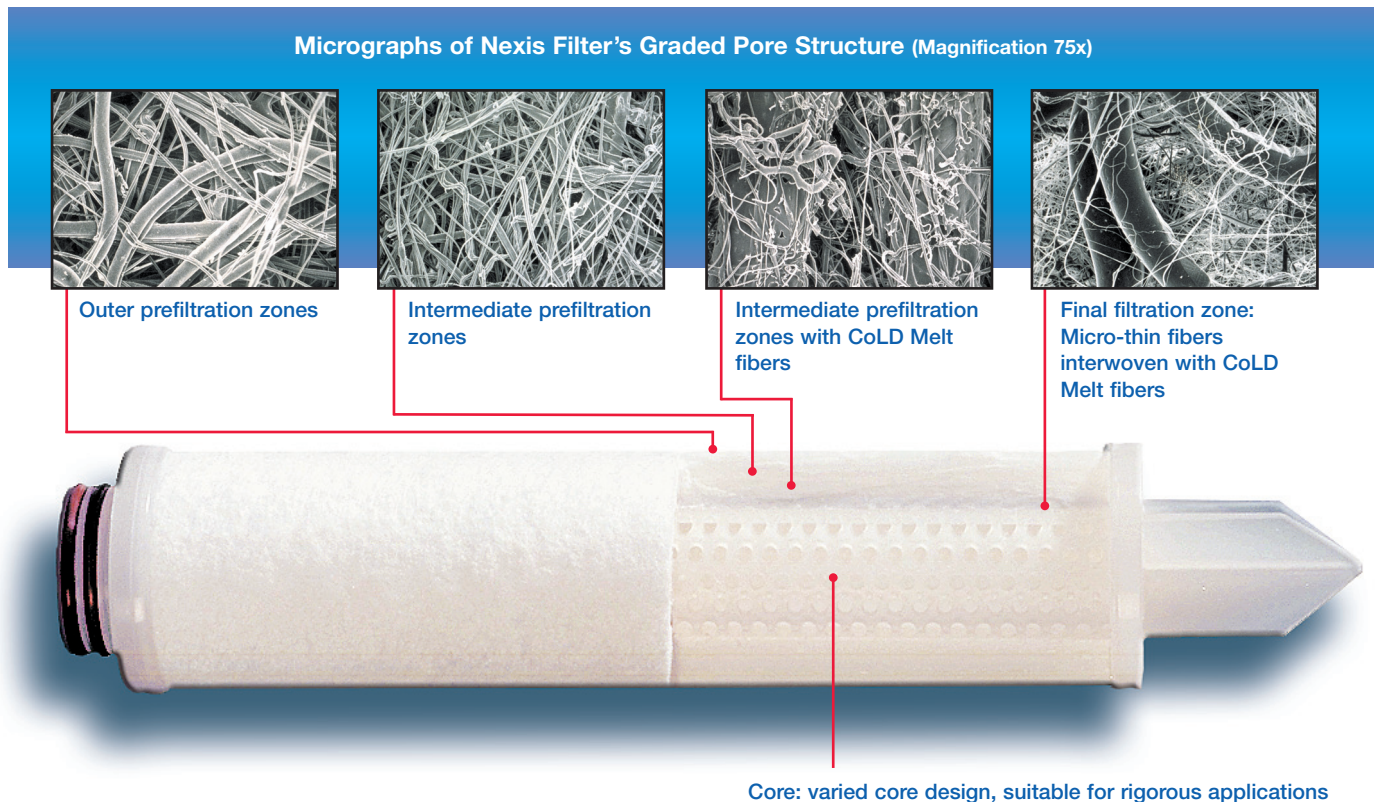
<sup>2</sup> Recommended change-out differential pressure is 2.4 bard (35 psid), provided the maximum differential pressure (based on temperature) is not exceeded.

## Flow Rates<sup>3</sup>



<sup>3</sup> Typical initial clean  $\Delta p$  for a 254 mm (10 inch) cartridge, clean water at 20 °C (68 °F). For liquids with viscosity greater than 1 cp, multiply the  $\Delta p$  by the viscosity.

Figure 1: Cutaway view of a Nexis filter, illustrating unique, proprietary CoLD Melt fiber technology for highly efficient contaminant removal, longer service life, and improved strength



## Sterilization and Sanitization

- Single open end (SOE) cartridges may be autoclaved for 30 minutes at 121 °C (250 °F) under no end load conditions. Cartridges should be cooled to system operating temperatures prior to use.
- *In situ* steam sterilization is not recommended.

## Ordering Information

This information is a guide to the part numbering structure and possible options. For availability of specific options please contact Pall. Refer to Pall for housing details.

Part Number: **NXA**   **U**  **W**  **480**

Example Part Number: **NXA1030UM7WS480**

See bold reference codes in tables.

**Table 1: Removal Rating<sup>4</sup>**

Code	Description
5	5 µm
<b>10</b>	10 µm
20	20 µm
30	30 µm

<sup>4</sup> Nexis A filters provide a removal efficiency of >99.9% at the stated rating in compatible fluids. Particulate removal rating is determined by a single pass test based on ASTM F-795 (see Pall Technical Bulletin 1903-<sup>\*</sup>T, latest revision).

**Table 2: Length**

Code	Description
<b>DOE Style only:</b>	
10	254 mm (10")
20	508 mm (20")
295	749 mm (29.5")
<b>30</b>	762 mm (30")
<b>SOE Style only:</b>	
10	254 mm (10")
20	508 mm (20")
<b>30</b>	762 mm (30")
40	1016 mm (40")

**Table 3: Adaptor**

Code	Description
blank	DOE with no endcaps
M3	SOE - single open end with flat closed end and external 222 O-rings
<b>M7</b>	SOE - single open end with fin end, 2 locking tabs and external 226 O-rings
M8	SOE - single open end with fin end and external 222 O-rings

**Table 4: O-ring Seal Material<sup>5</sup>**

Code	Description
<b>S</b>	Silicone Elastomer
E	Ethylene Propylene Rubber

<sup>5</sup> For M3, M7 and M8 styles only



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Please contact Pall Corporation to verify that the product conforms to your national legislation and/or regional regulatory requirements for water and food contact use.

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