FBDSN66WENb

Ultipor® N66 Filter Cartridges

For Microbial Reduction and Retention

Ultipor N66 filter cartridges are specifically engineered for microbial stabilization of food and beverage products.

Description

Ultipor N66 filters incorporate pleated nylon 6,6 media into single open ended (SOE) cartridges to fit in sanitary filter housings. These elements provide reliable, economical and efficient microbial stabilization for a broad range of food and beverage applications.

Ultipor N66 filters are suitable for exposure to repeated hot water and *in situ* steam sanitization cycles for longer service life.

Features	Benefits
Hydrophilic media in multiple microbial retention ratings	· Consistent filtrate quality · Targeted microbial stabilization of beverages and ingredients · Easy to wet and integrity test
Cartridges resistant to numerous sanitization cycles produced with no adhesives or surfactants	· Process reliability · Cost effective filtration
Individually serialized cartridges	· Full traceability

Quality

· Cartridges produced in a controlled environment
· Manufactured according to ISO 9001:2015 certified Quality Management System

Food Contact Compliance

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

Ultipor N66 filter cartridges with nylon hardware

Typical Applications

Grades	Applications
NF and NL	Filtration of aqueous fluids (*e.g.* bottled water or ingredient solutions)
NB, NK and NN	Filtration of bulk alcoholic fluids (*e.g.* wine and beer) or aqueous fluids (*e.g.* ingredient solutions)

Materials of Construction

Component	Description
Filter Medium	Nylon with integral polyester non-woven substrate
Support and Drainage	Polyester
Cage, Core	Polypropylene
O-ring Seal	Ethylene Propylene Rubber or Silicone Elastomer
End Cap and Fin End	Unpigmented Nylon 6-10
Adaptor	Unpigmented Nylon 6-10 with internal stainless steel reinforcing ring

Technical Information

Operating Characteristics in Compatible Fluids[1]

Maximum continuous operating temperature	80 °C (176 °F)

Maximum Differential Pressure (forward)	**Operating Temperature**
5.4 bard (80 psid)	50 °C (122 °F)
300 mbard (4.4 psid)	140 °C (284 °F)

[1]Compatible fluids are define as those which do not swell, soften or attack any of the filter components.

Sterilization and Sanitization

Medium	Temperature	Cumulative Time[2]
Hot Water	80 - 85 °C (176 - 185 °F)	100 hours
Steam	110 °C (230 °F)	50 hours
Steam	125 °C (257 °F)	16 hours*
Steam	140 °C (284 °F)	4 hours*
Peracetic acid (PAA), 245ppm PAA (955 ppm H_2O_2 to give 1200 ppm of total peroxides)	ambient	1,000 hours**

[2] Measured under laboratory test conditions. The actual cumulative time depends on the process conditions. For applications requiring Sterilization or Sanitization Pall recommends the use of Code 7 adaptors to ensure filter sealing after cooling. Cartridges should be cooled to system operating temperature prior to use. Contact Pall for recommended procedures.

* Where indicated one hour sanitization cycles were utilized.

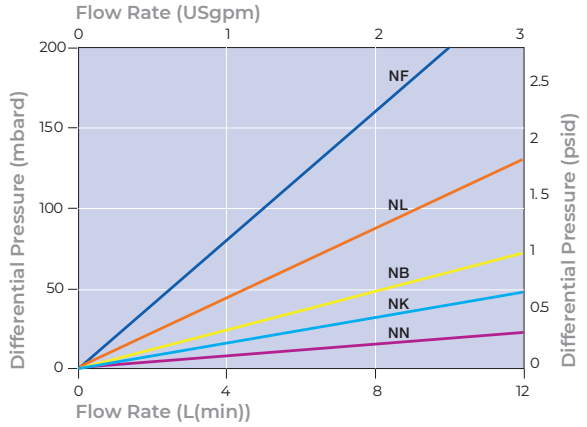
** Measured under laboratory test conditions and implementing Pall recommended operating procedures. The actual cumulative exposure time may vary depending on the process conditions and procedures.

Microbial Removal Rating in Liquid

The NF grade (2 media layers) provides a sterile effluent when challenged with *Brevundimonas diminuta* (ATCC19146) at a level of >10^7 CFU per cm^2 of effective filtration area. Microbial reduction data for specific applications may be available for other media grades, please contact your Pall representative for application specific information.

NF and NL grades are recommended for filtration of water and aqueous fluids. NB, NK and NN grades are recommended for filtration of bulk alcoholic beverages like wine and beer. All grades may be suitable for liquid ingredient filtration. Please contact Pall for assembly sizing based on your specific application.

Typical Flow Rates[3]



[3]Typical initial clean media differential pressure (ΔP) per 250 mm (10") cartridge for water at 20 °C (68 °F); viscosity 1 centipoise. For 508 mm, 762 mm and 1016 mm configurations divide the differential pressure by 2, 3, and 4 respectively.

Ordering Information

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

Part Number: AB N ☐ ☐ 7 ☐ W ☐

Table 1 Table 2 Table 3 Table 4

Table 1: Nominal Length

Code	Description
1	254 mm (10")
2	508 mm (20")
3	762 mm (30")
4	1016 mm (40")

Table 3: Application

Code	Description
B*	Beer applications
Blank	All other applications

*Available in NB and NK only

Table 2: Microbial Removal Rating

Code	Microbial removal rating (µm) in Liquids	Membrane Layers
NF	0.2	2
NL	0.45	2
NB	0.45	1
NK	0.65	1
NN	1.2	1

Table 4: O-ring Seal

Code	Description
H4	Silicone Elastomer
J	Ethylene Propylene Rubber

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Pall Corporation has offices and plants throughout the world. To locate the Pall office or distributor nearest you, visit www.pall.com/contact.

The information provided in this literature was reviewed for accuracy at the time of publication. Product data may be subject to change without notice. For current information consult your local Pall distributor or contact Pall directly.

IF APPLICABLE 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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