Lenntech

PALL Food and Beverage

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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 and Benefits

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 reliabilityCost effective filtration
Individually serialized cartridges	Full traceability

Quality

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

Food Contact Compliance

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

Ultipor[®] N66 Filter Cartridges

For Microbial Reduction and Retention



Support and Drainage	Polyoster
Cage, Core	Nylon with integral polyester non-woven substrate
O-ring Seal	
For Part Numbers beginning v	with AB_
End Cap and Fin End	Ethylene Propylene Rubber or Rolvester Silicone Elastomer
Adaptor	Polyester
For Part Numbers beginning v	with ABN_
End Cap and Fin End	
Adaptor	
	Unpigmented Nylon 6-10
	Unpigmented Nylon 6-10 with internal stainless steel reinforcing ring

Technical Information

Operating Characteristics in Compatible Fluids¹

Maximum continuous operating temperature	80 °C (176 °F)
Maximum Differential Pressure (forward)	Operating Temperature
5.4 bard (80 psid)	50 °C (122 °F)
4.0 bard (60 psid)	80 °C (176 °F)
2.1 bard (30 psid)	90 °C (194 °F)
300 mbard (4.4 psid)	140 °C (284 °F)
For Part Numbers beginning with AB_	
Maximum continuous operating temperature	60 °C (140 °F)
Maximum Differential Pressure (forward)	Operating Temperature
5.4 bard (80 psid)	50 °C (122 °F)
4.0 bard (60 psid)	80 °C (176 °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

For Part Numbers beginning with ABN_		
Method	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*
For Part Numbers beginning with AB_		
Method	Temperature	Cumulative Time
Steam	125 °C (257 °F)	16 hours*
Steam	140 °C (284 °F)	4 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.

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 >107 CFU per cm² 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.

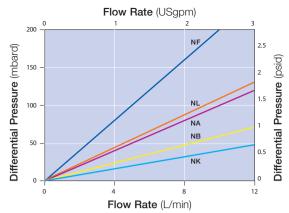
NA, NF and NL grades are recommended for filtration of water and aqueous fluids. NB and NK grades are recommended for filtration of bulk alcoholic beverages like wine and beer. All grades may be suitable for liquid ingredient filtration. Please contact Pall for assembly sizing based on your specific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



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Typical Flow Rates³



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	Table 1	Table 2 Table 3 Table 4 W Table 6
	AB	Ν	Table 2 Table 3 Table 5 Table 6

Table 1 : Hardware Material	
Code	Description
N*	Unpigmented Nylon 6-10
Blank	Polyester
* Available only in	Code 7 (Table 4)

Table 2 : Nominal Length

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

Table 3 : Microbial **Removal Rating**

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

Table 4 : Adaptor Description Code SOF - single open end with flat 3 closed end and external 222 O-rings, in polyester only SOE - single open end with fin end, 2 7 locking tabs and external 226 O-rings SOE - single open end with fin 8 end and external 222 O-rings. in polyester only - single open end with fin end,

28 3 locking tabs and external 222 O-rings, in polyester only (Code 3, 7, 8 and 28 may be available in

selected grades, confirm code availability with your Pall representative)

Table 5 : Application	
Code	Description
B* Blank	For beer applications For all other applications
* Availabl	e in NB and NK only

Table 6 : 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. For Pall representatives in your area, please go to www.lenntech.com/contact

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.

Because of technological developments related to the products, systems, and/or services described herein, the data and procedures are subject to change without notice. Please consult your Pall representative or visit www.lenntech.com to verify that this information remains valid.

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