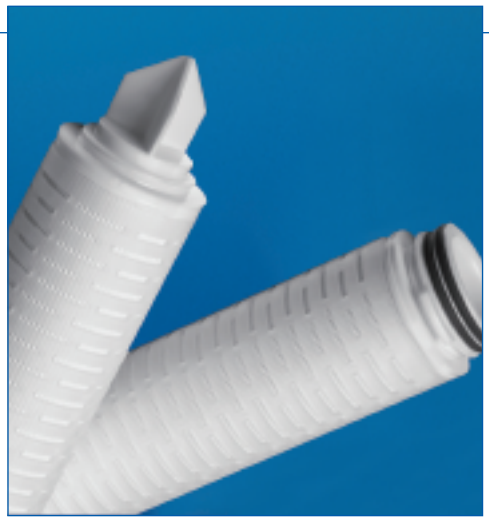
ULTIPOR N_{66}

Nylon 66 Membrane Filter Cartridges for the Food and Beverage Industry



The Pall Nylon 66 range of filters ensure the reliable and efficient retention of particulate and microbiological contamination. For many years these filters have been successfully used in the food and beverage industry where they convince by their reliability.

Ultipor N_{66}

This inherently hydrophilic membrane forms the basis for Pall Nylon 66 filter cartridges. Special manufacturing processes ensure a homogeneous membrane structure. The filter elements are easy to wet so that their integrity can be reliably tested.

The durability and flexibility of the Nylon 66 filter medium allows to offer different designs from single-layer filters to double-layer configurations. Thereby, the Pall Ultipor N_{66} filters with large filter areas distinguish themselves by extremely long service lives.

Good chemical compatibility and very low extractables (no additives or adhesives are used in construction) are among the significant features of this filter.

Quality

Stringent quality controls during the manufacturing process and test procedures assure the high quality standard of Pall filters which thus fully meet the high requirements of the food and beverage industry.

Manufacture takes place under clean room conditions according to procedures complying with a Quality Management System certified to ISO 9001:2000. The polymeric materials used in the manufacture of the filters meet the requirements for food contact use (as per FDA Title 21 CFR parts 170 – 199). They fulfil the requirements of the EC Directive 2002/72/EC.

During production every single filter element is integrity tested.

Traceability

Each filter is identified with a unique batch and serial No. by which every production stage can be traced.

Technical Data

No resins or binders are used in the construction of the Ultipor N_{66} filters. The individual components are thermally bonded by means of special company-owned, patented techniques.

Construction of Ultipor N_{66} Filters	
Endcaps	Nylon
Cage	Polypropylene
Drainage/support layers	Polyester
Filter membrane	Nylon 66
Drainage/support layers	Polyester
Centre core	Polypropylene
Adapters	Nylon (stainless steel ring in adapter 7)
O-rings	Silicone (standard)

Maximum admissible differential pressure

The maximum admissible differential pressure in a forward flow direction for the Ultipor N66 filter elements of the ABN construction series is shown in the table below.

Temperature	Max. admissible differential pressure*
up to 50 °C	540 kPa
50 to 80 °C	400 kPa

*In fully compatible fluids which do not chemically attack, soften or adversely affect the filter in any way.

Sterilization

Ultipor N_{66} filters can be sterilized repeatedly by steaming in situ or sanitized with hot water or by steam autoclave.

Medium	Temperature	Max. admissible differential pressure	Cumulative time*
Steam	125 °C	30 kPa	16 hours
	110 °C	30 kPa	50 hours

*Measured under test conditions. The actual cumulative time depends on the process conditions.

Ordering Codes

Filter elements with Nylon endcaps	Length	Retention rates	Adapters	Food and beverage version	Gasket material
ABN			7	W or B	H 4

Code	Nominal length
1	254 mm
2	508 mm
3	762 mm
4	1016 mm

7 = bayonet closure with double O-ring sealing

Other adapters on request

H4 = silicone

materials on request

Absolute retention rate	Construction	Ultipor N_{66}	Effective filter area per 10" element*	Typical flow rate* per 10" element** (ABN1)
0.2 µm	double-layer	NF	0.79 m²	5.0 L/min
0.45 µm		NL	0.82 m²	10.0 L/min
0.2 µm	single-layer	NA	0.84 m²	10.0 L/min
0.45 µm		NB	0.82 m²	16.7 L/min
0.65 µm		NK	0.82 m²	25.0 L/min
0.8 µm		NH	0.73 m²	38.5 L/min
1.2 µm		NN	0.74 m²	62.5 L/min

* For clean water at 10 kPa differential pressure

** For filter elements of different sizes, please use the following multiplication factors:

ABN2 = 2.0 ABN3 = 3.0 ABN4 = 4.0

ABN	3	NF	7	W	H4

= ABN3NF7WH4

Example for an ordering code:

Filter elements of the construction series ABN with a nominal length of 762 mm and an ULTIPOR N66 membrane, grade NF. Bayonet closure adapter with double O-ring sealing of silicone and synonym „W“ (or „B“) as quality specification for food and beverage.

PALL Food and Beverage

Pall GmbH SeitzSchenk
Planiger Strasse 137
D-55543 Bad Kreuznach

+49(0)671 88 22 0 phone
+49(0)671 88 22 200 fax

Bettringer Strasse 42
D-73550 Waldstetten

+49(0)7171 40 10 phone
+49(0)7171 40 11 07 fax

infobk@europe.pall.com email

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