



Donaldson
FILTRATION SOLUTIONS

PROCESS FILTRATION FROM PURE TO STERILE

LifeTec PP-TF N



Donaldson LifeTec PP-TF N filters are nominal rated depth type filters constructed of 100% Polypropylene. LifeTec PP-TF N filters deliver outstanding flow rates and high throughput, with nominal particulate retention from 1µm up to 50 µm and high dirt holding capacity.

The all-Polypropylene construction provides broad chemical compatibility and low extractable levels in a wide range of fluids and applications.

This extremely durable design maintains consistent porosity and impurity retention throughout its service life without shedding or unloading contaminants.

All components meet the EU and USA requirements for Food Contact Use in accordance with CFR (Code of Federal Regulations) Title 21 and EC/1935/2004 and subsequent amendments. The filter element is manufactured in accordance with the GMP requirements as defined in EC/2023/2006, has no migration of filter media, is non-fibre releasing and is thermally welded.

All materials used do not contain any Substances of very high concern (SVHC) as defined in EC/1907/2006 and EC/65/2001.



FEATURES AND BENEFITS

- Extremely high dirt holding capacity
- Excellent flow rate
- Regenerable
- Highly robust construction
- Approved for Food Contact Use acc. to CFR Title 21 & EC/1935/2004.



INDUSTRIES

- Chemical
- Beverages
- Food
- Environmental



APPLICATIONS

The nominal rated PP-TF N depth filter is designed and developed as prefilter with high dirt holding capacity for coarse contaminations and particles. Typical applications for LifeTec PP-TF N filter elements include:

Purification of Food and Beverage (pre) products:

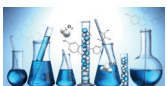
- Well Water
- Mineral Water
- Tap Water
- Soft Drinks

Purification and Filtration of:

- Cosmetics
- Paints and Dyes
- Oils
- Jet Printer Inks
- Lubricants

Purification Sterile Filtration of Beverages:

- Acids
- Esters and Ketones
- Bases
- Photolithographic Liquids
- Alcohols, Aldehydes



MATERIAL COMPLIANCE USA

All components of the LifeTec PP-TF N filter elements are FDA listed for food contact use in the Code of Federal Regulations (CFR), Title 21:

Filter Materials		CFR Title 21
Filter Material	Polypropylene	§ 177.1520
Upstream Support	Polypropylene	§ 177.1520
Downstream Support	Polypropylene	§ 177.1520
Outer Guard	Polypropylene	§ 177.1520
Core	Polypropylene	§ 177.1520
End Caps	Polypropylene	§ 177.1520
O-Rings	EPDM	§ 177.2600
	Silicone	§ 177.2600
Sealing Method	Thermal Bonding	

MATERIAL COMPLIANCE EU

The Donaldson LifeTec PP-TF N filter element meets the guideline for Food Contact Use as given in European Regulation (EC) Number 1935/2004. All polymeric components (Polypropylene) meet the requirements of EU Directive EC/10/2011 relating to plastic materials and articles intended to come into contact with foodstuffs. Migration tests have been carried out in simulants after flushing or in flow conditions. All materials used do not contain any Substances of very high concern (SVHC) as defined in EC/1907/2006 (REACH Guideline) and EC/65/2011 (RoHS Guideline) and are free of any Latex-based components. Furthermore the materials do not contain any Animal derived ingredient (ADI-free) and thus bear no risk of transmitting TSE and BSE.

QUALITY TEST

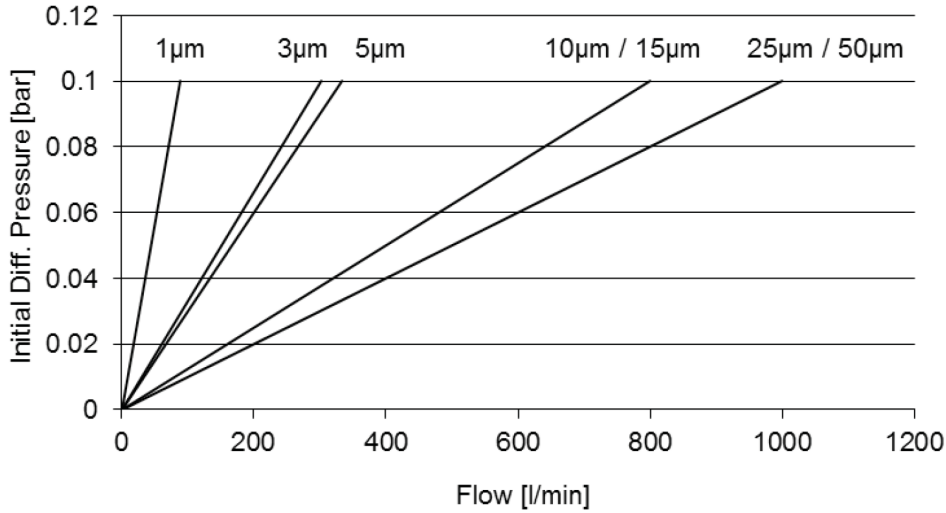
All products have been inspected and released by Quality Assurance as having met the following requirements:

- The traceability of each filter according to EC/1935/2004 is provided by the Serial number.
- All filters show no migration of the filter medium and are non-fibre releasing
- All LifeTec PP-TF N filter elements are completely staged, assembled, tested and packaged in Class 7 clean room facility, whose Quality Management System is approved by an accredited registering body to the appropriate ISO 9001 Quality Systems Standard.

PRODUCT SPECIFICATIONS

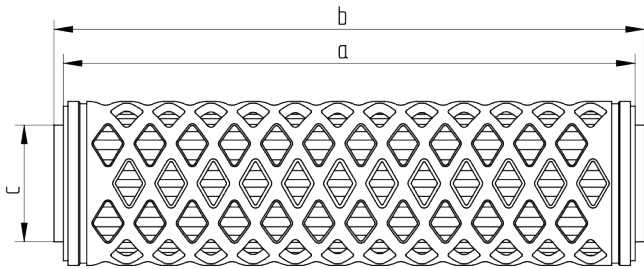
Product Specifications		
Nominal Retention Rates	1 µm, 3 µm, 5 µm, 10 µm, 15 µm, 25 µm, 50 µm	
Filtration Surface	> 0.6m ² per 250mm element (10")	
Maximum Differential Pressure	Operating Temperature (°C)	Differential Pressure (bar)
	38	5.5
	66	4.1
	82	2.1
Cumulative Steaming Time	For this element type steaming is not recommended	

FLOW CHARACTERISTICS



LifeTec PP-TF N
10", Deionised water, 20°C

DIMENSIONS



DOE: Double open end with EPDM gaskets

Dimensions (DOE connection)

Size	A	B	C
10"	244mm	250mm	50mm
20"	500mm	506mm	50mm
30"	754mm	760mm	50mm
40"	1008mm	1014mm	50mm

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