

# PROCESS FILTRATION FROM PURE TO STERILE

## LifeTec PP-TF N



### PRODUCT DESCRIPTION

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 1 µm 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 contaminations.

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.

### MAIN FEATURES & 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

All materials used do not contain any Substances of very high concern (SVHC) as defined in EC/1907/2006 and EC/65/2011.

### INDUSTRIES



- Chemical
- Food
- Beverages
- Environmental

## APPLICATIONS

The nominal rated PP-TF N depth filter is designed and developed as prefilter with high dirt hold 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
- Tap Water
- Mineral Water
- Soft Drinks

### Purification and Filtration of:

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

### Purification of Chemicals:

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

## QUALITY TEST

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

- The traceability of each filter element 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 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.

## MATERIAL COMPLIANCE USA

All components of the LifeTec PP-TF N filter element 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	

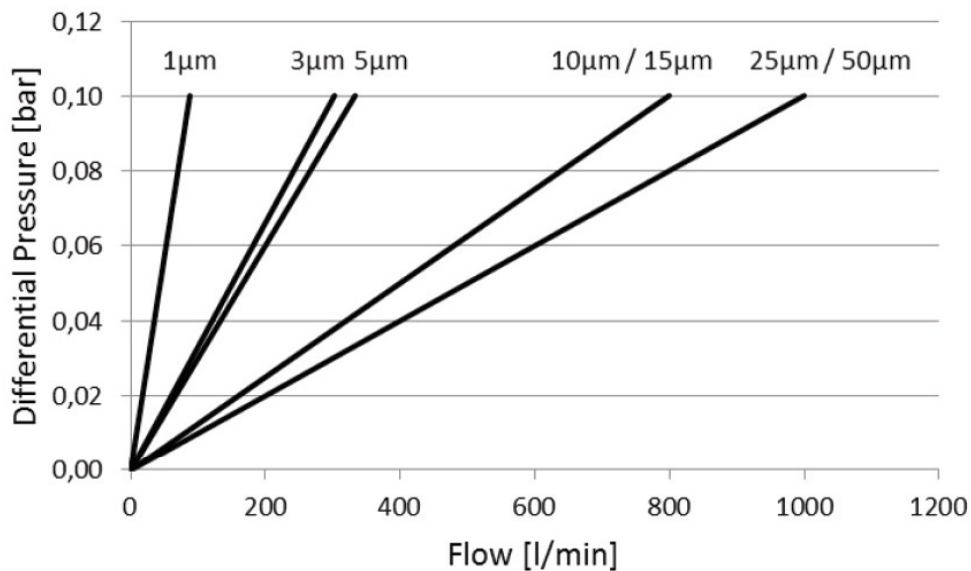
## MATERIAL COMPLIANCE EU

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.

## PRODUCT SPECIFICATIONS

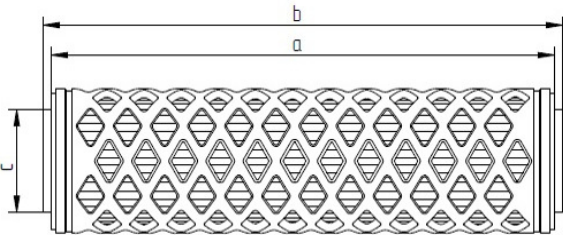
Product Specifications				
Nominal Retention Rates	1 µm, 3 µm, 5 µm, 10 µm, 15µm, 25µm, 50µm			
Filtration Surface	> 0.6 m <sup>2</sup> per 250 mm element (10")			
Maximum Differential Pressure	Operating temperature		Differential pressure	
	°C	°F	bar	psi
	38	100	5.5	80
	66	150	4.1	60
	82	180	2.1	30
Cumulative Steaming Time	For this element type steaming is not recommended			

## FLOW CHARACTERISTICS



LifeTec PP-TF N

10", Deionised water, 20°C



Dimensions (DOE connection)						
Size	a		b		c	
	mm	inch	mm	inch	mm	inch
10"	244	9.6	250	9.8	50	2.0
20"	500	19.7	506	19.9	50	2.0
30"	754	29.7	760	29.9	50	2.0
40"	1008	39.7	1014	39.9	50	2.0

DOE: Double open end with EPDM gaskets

Other end cap configurations on request.