



**Donaldson**  
FILTRATION SOLUTIONS

## **PP-TF N** **NOMINAL DEPTH** **FILTER ELEMENTS**

Process Filtration

**Donaldson LifeTec® PP-TF N filters are nominal rated depth type filters constructed of 100% polypropylene.** The 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-fiber 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/65/2011.



**PP-TF N**

## **FEATURES & BENEFITS**

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

## APPLICATIONS

| INDUSTRIES & APPLICATIONS    |               | PURIFICATION AND FILTRATION |                        |                              |
|------------------------------|---------------|-----------------------------|------------------------|------------------------------|
| Chemical                     | Beverages     | Cosmetics                   | Lubricants             | Jet Printer Inks             |
| Food                         | Environmental | Oils                        | Paints and Dyes        |                              |
| FOOD & BEVERAGE PURIFICATION |               | CHEMICAL PURIFICATION       |                        |                              |
| Well Water                   | Mineral Water | Acids                       | Alcohols,<br>Aldehydes | Photolithographic<br>Liquids |
| Tap Water                    | Soft Drinks   | Bases                       | Esters and<br>Ketones  |                              |

## SPECIFICATIONS

### 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-fiber releasing.
- All 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.

### MATERIAL COMPLIANCE USA

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

| 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 |              |

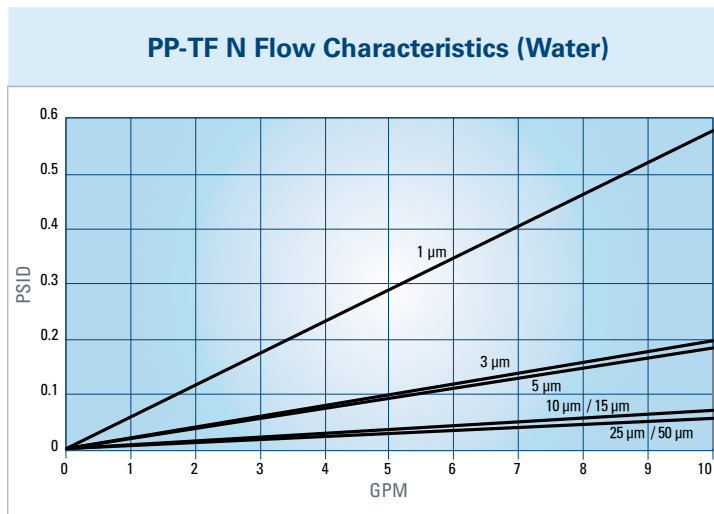
## MATERIAL COMPLIANCE EU

The 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.

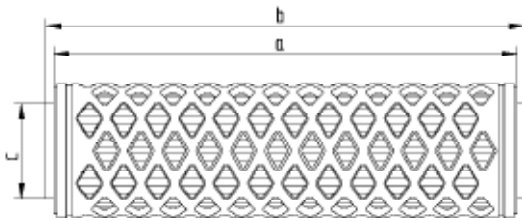
## INTEGRITY TESTING

|                               |   |                       |
|-------------------------------|---|-----------------------|
| Nominal Retention Rates       | 1 $\mu\text{m}$ , 3 $\mu\text{m}$ , 5 $\mu\text{m}$ , 10 $\mu\text{m}$ , 15 $\mu\text{m}$ , 25 $\mu\text{m}$ , 50 $\mu\text{m}$ |                       |
| Filtration Surface            | > 0.6 m <sup>2</sup> per 250 mm element (10")   |                       |
| Maximum Differential Pressure | Operating Temperature   | Differential Pressure |
|                               | 100°F   | 80 psi                |
|                               | 150°F   | 60 psi                |
|                               | 180°F   | 30 psi                |
| Cumulative Steaming Time      | For this element type steaming is not recommended   |                       |

For information on test equipment or test services, please contact your Donaldson Sales Engineer and visit our website at [www.donaldsonprocessfilters.com](http://www.donaldsonprocessfilters.com).



## DIMENSIONS



| Filter Size | DOE Connection  |      |     |
|-------------|-----------------|------|-----|
|             | Dimensions (in) |      |     |
|             | a               | b    | c   |
| 10"         | 9.6             | 9.8  | 2.0 |
| 20"         | 19.7            | 19.9 | 2.0 |
| 30"         | 29.7            | 29.9 | 2.0 |
| 40"         | 39.7            | 39.9 | 2.0 |

DOE: Double open end with EPDM gaskets

### Important Notice

Many factors beyond the control of Donaldson can affect the use and performance of Donaldson products in a particular application, including the conditions under which the product is used. Since these factors are uniquely within the user's knowledge and control, it is essential the user evaluate the products to determine whether the product is fit for the particular purpose and suitable for the user's application. All products, specifications, availability and data are subject to change without notice, and may vary by region or country.



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### F117016 (04/17) ENG PP-TF N Nominal Depth Filter Elements

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