

PP-TF Serie Polypropylene Depth Cartridge Filters



PP-TF Serie - Polypropylen

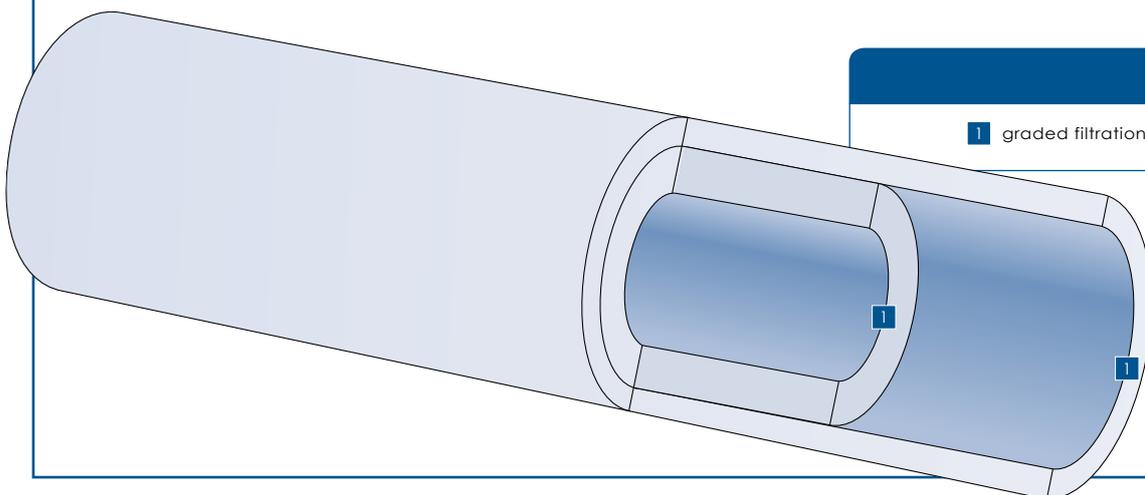
■ PP-TF Serie is a high flow, graded depth filter with high contaminant capacity for long life. Constructed from FDA approved polypropylene with excellent performance characteristics, it is an economic choice for a wide range of applications.

PP-TF Serie is available in a range of industrial standard lengths as either absolute or nominal rated cartridges. Also available in Nylon construction for solvent filtration.

Applications

PP-TF Serie cartridges provide absolute and nominal filtration where the cost of filtration is critical. Suitable for the filtration of aqueous and organic liquids, PP-TF Serie cartridges can be used as prefilters or final filters in the following applications:

- **Food and beverage**
Process water, polishing lines and clarification.
- **Pharmaceuticals**
Prefiltration and clarification.
- **Fine chemicals and solvents**
Process streams.
- **Coatings**
Coating lines, solvents, inks and dyes.
- **Photographic chemicals**
Emulsions and process water.
- **Metal finishing electroplating**
Paint and resin production.
- **Water treatment prior to reverse osmosis**
Resin traps and potable water.
- **Cosmetics product filling**
Water lines and batch filtration.



Depth Cartridge Filters

Features and Benefits

- **PP-TF Serie cartridges**
Extensive research and selection of the latest and most advanced polypropylene meltblown filter media, results in improved performance, leading to extended filter life at a given efficiency.
- **Graded depth media**
The graded structure of the media provides prefiltration of the process fluid prior to the absolute rated final layer. This combination provides economy of use and a smaller process footprint.
- **High degree of chemical compatibility**
Constructed entirely of polypropylene and/or nylon.
- **Absolute and nominal removal ratings**
PP-TF Serie cartridges are validated using recognised industry standard test methods.
- **Suitable for steam and hot water sanitisation**
PP-TF Serie cartridges are resistant to repeat steam sterilisation and hot water cycles.
- **Environmentally friendly**
PP-TF Serie filters are environmentally friendly, all spent cartridges can be readily incinerated to trace ash.

Cartridge Construction

The high quality robust polypropylene and/or nylon construction of PP-TF Serie cartridges, allows for excellent chemical compatibility with a wide range of fluids.

The meltblown polypropylene and nylon media provides a bonded matrix thus eliminating fibre migration.

The inherent structural stability of the PP-TF Serie, prevents 'channelling' and avoids the risk of particle unloading even under impulse conditions.

The PP-TF Serie fusion bonded construction ensures cartridge integrity. No surfactants or bonding agents are used, minimising extractables.

Particle Retention Rating

Code	Pore Rating (microns)	Absolute Rating 99.98% Beta 5000 (microns)	Nominal Rating 99.90% Beta 1000 (microns)	Nominal Rating 90.00% Beta 10 (microns)
TA01	1	0.9	0.35	<0.3
TA03	3	1.8	1.2	1
TA05	5	2.6	1	3
TA10	10	8	7	5
TA25	25	20	13	10
TA50	50	43	35	20
TA75	75	70	55	50
TA100	100	95	84	70

Specification

Materials of Manufacture

Filter media: Polypropylene/nylon
End fittings: Polypropylene

Cartridge Dimensions (Nominal)

Diameter: 63mm (2.5")
Length: 254mm (10"),
508mm (20"),
762mm (30"),
1016mm (40")

Gaskets and O-Rings

Ethylene Propylene, FEP encapsulated, Silicone, Viton®, Nitrile or Polypropylene felt available for non crush-fit end adapters.

Maximum Differential Pressure

Normal flow direction at:
20°C (68°F): 3.5 bar (50psi)
60°C (140°F): 1.0 bar (15psi)
80°C (176°F): 0.5 bar (7psi)

Operating Temperature

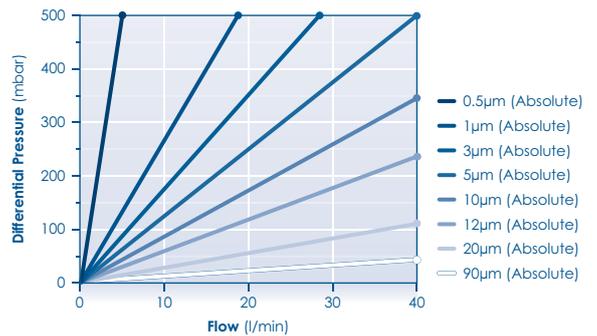
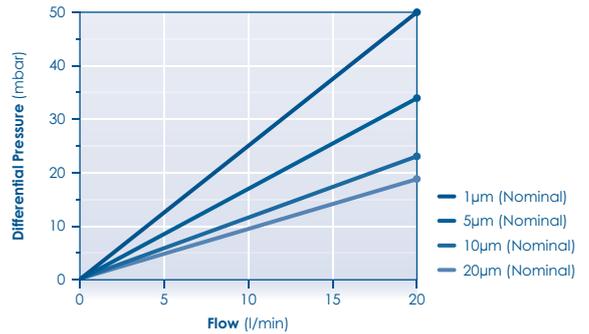
Maximum continuous: 80°C (176°F)

Extractables

Minimum total extractables.

Clean Water Flow Rates

- Typical clean water flow rate:
A 254mm (10") PP-TF Serie single cartridge exhibits the flow- ΔP characteristics indicated below, for solutions with a viscosity of 1 centipoise.
- Other solutions:
For solutions with a viscosity of greater than 1 centipoise, multiply the indicated differential pressure by the viscosity in centipoise.



Kronsbein ultrafilter®

ultrafilter gmbh

Otto-Hahn-Str. 1 • 40721 Hilden • Germany
Tel: +49(0)2103.33 36 0 • Fax: +49(0)2103.33 36 36
e-Mail: info@ultra-filter.de • www.ultra-filter.de

Your Microfiltration Specialist:

