

Tekfil™ WF

Melt Blown Pre-Filter or
Final Polishing Filter



Tekfil™ wide format (WF) filter cartridges are designed for applications requiring a very high flow rate. They are equally suitable for use as pre-filters or final polishing filters in applications that do not require membrane filtration.

The use of a spacer mesh as an upstream pleat support means that fluid flow is uniform across the entire surface of the filter medium. The mesh holds the flow channels open thereby maximising dirt holding capacity and minimising pressure drop across the filter.

Our filter cartridges are absolute rated, tested to Beta 5000 using the industry standard single pass OSU-F2 test procedure with ISO 12103 part 1 A2 Fine and A4 Coarse test dust as appropriate. Manufactured in the UK using all polypropylene and hardware, these filter cartridges have excellent chemical compatibility.

Thermal bonded construction eliminates the requirement for adhesives, maintaining product integrity in demanding applications and minimising the level of extractables in the filtrate. All the materials conform to the relevant requirements of FDA CFR21 part 117.

Typical Applications

- Food and beverage
- Pharmaceuticals
- Fine chemicals and solvents
- Coatings
- Photographic chemicals
- Metal finishing electroplating
- Water treatment prior to reverse osmosis
- Cosmetics product filling

Ordering Information

Product Code:		1	-	2	3
1: Pre-Filter		2: Pore rating		3: Length (Nominal)	
WFC	Tekfil™ WF	05	5µm	20	20" (508mm)
		10	10µm	40	40" (1016mm)
		25	25µm		
		30	30µm		
		40	40µm		
		75	75µm		

Features and Benefits

- Absolute micron ratings to ensure consistent, repeatable performance
- Multi layer graded density structure gives high contaminant holding capacity resulting in a longer filter service life
- Available with or without a core
- Manufactured in the UK
- Formed by thermal bonding with no resins, binders or adhesives
- 100% polypropylene or nylon construction, provides wide process fluids compatibility and a minimum level of extractables
- Suitable for high flow applications as the large surface area and high void volume media result in low pressure drops and high contaminant capacity
- Available in 20" and 40" lengths to retrofit into most existing installations
- Compliant with NSF42 and FDA CFR title 21

Specifications

Materials of Manufacture

Filter media: Polypropylene or nylon

Cartridge Dimensions (Nominal)

Effective Filtration Area:

5m² (53.8ft²) per 40" module.

Outside diameter: 152mm (6")
 Inside diameter: 114mm (4.5")
 Length: 508mm (20")
 1016mm (40")

Micron Rating

5µm, 10µm, 25µm, 40µm, 75µm and 100µm

Absolute Microbial Rating	Effective Filtration Area (each 1016mm (40") module)
5µm, 10µm, 25µm, 40µm, 75µm and 100µm	5m ² (53.8ft ²)

Recommended Operating Conditions

	Polypropylene	Nylon
Recommended ΔP @ 20°C (68°F)	2 bar (29psi)	2 bar (29psi)
Maximum ΔP @ 20°C (68°F)	4 bar (58psi)	4 bar (58psi)
Maximum ΔP @ 80°C (176°F)	1 bar (15psi)	2 bar (29psi)
Maximum ΔP @ 135°C (275°F)	n/a	0.5 bar (7psi)

Maximum Differential Pressure

Normal flow direction at:

20°C (68°F): 3.5 bar (51psi)
 65°C (149°F): 1.8 bar (26psi)
 80°C (176°F): 1.0 bar (15psi)

Recommended Changeout Differential Pressure

20°C (68°F): 1.5bar (22psi)

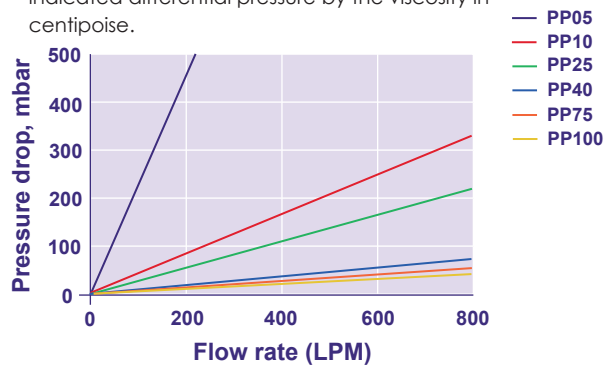
Clean Water Flow Rates

- Typical clean water flow rate:

A 1016mm (40") Microfil™ WF cartridge exhibits the flow-ΔP characteristics indicated below, for solutions with a viscosity of 1 centipoise.

- Other solutions:

For solutions with a different viscosity, multiply the indicated differential pressure by the viscosity in centipoise.



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