

# Microfine PET Series Cartridge Filters

100% Melt Blown Polyester Cartridges for high temperature and solvent applications



PET Melt Blown depth filter cartridges are designed for applications where use of polypropylene or Nylon is limited due to high temperature or compatibility issues. These cartridges also offer true gradient depth filtration, with extremely low pressure drops and high void volumes to ensure long service life of the filter.

## Construction Materials

<b>Filtration Media</b>	Melt Blown micro-denier Polyester fibres
<b>End Caps</b>	Polyester
<b>Sealing Method</b>	Thermal Bonding
<b>O-rings</b>	Buna, Viton® (or FKM), EPDM, Silicone, FEP Encapsulated Viton (or FKM)

## Dimensions

<b>Length</b>	9.75 to 40 in. (23 to 101.6 cm) nominal
<b>Outside Diameter</b>	2.50 in. (6.35 cm) nominal

## Applications

- ◆ Petrochemicals
- ◆ Fine Chemicals
- ◆ Solvents
- ◆ High temperature applications
- ◆ Hydraulic and Petroleum oils
- ◆ Hydrocarbons

## Maximum Operating Parameters

<b>Differential Pressure</b>	
• Forward	60 psid
<b>Operating Temperature</b>	120 °C (248 °F)
<b>Recommended Changeout Pressure</b>	- 35 psid

## FDA and EC Compliance

All Microfine Filter cartridge filters are designed to meet the FDA requirements for processing food and beverage products. The materials used to construct NPP filters are listed by the FDA for use in articles intended for repeated food contact as specified in Title 21 CFR sections 174.5, 177.1500, 177.1520, 177.1630, 177.2440 and 177.2600 as appropriate. NPP filters comply with Title 21 CFR sections 210.3 (b)(6) and 211.72, for non-fiber releasing filters. All materials used to make the filters are listed in European Commission Regulation EU/10/2011, Annex 1.

## Total Performance

Microfine Filters is a manufacturer of filtration products to industries in which filtration is considered a critical part of the manufacturing process. We supply a complete line of products and services to help you cost effectively satisfy all your filtration requirements from a single source.

## Quality Assurance and Standards

Our goal is to ensure our customers the greatest possible value for their filtration dollar. Our state of the art manufacturing facility and quality management system both meet ISO 9001:2008 standards. Each operation from assembly and test to cleaning, drying, and packaging is done in appropriately rated clean rooms.

## Flow Rate vs Differential Pressure

The Flow Rates vs Differential table represents typical pressure drop at 5 gallons per min flow across a single 10 in. cartridge element. The test fluid is water at ambient temperature. Extrapolation for housings with multiple elements and higher pressure drops is acceptable, but as flows increase the pressure drop of the housing becomes more apparent.

### Typical Flow Rates Vs Differential Pressure

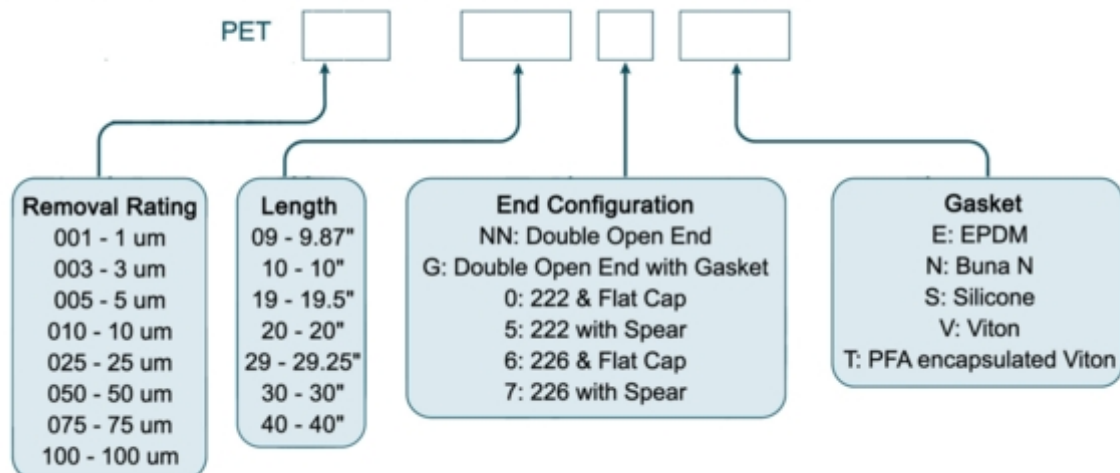
Micron Rating		1.0 µm	3.0 µm	5.0 µm	10.0 µm	25.0 µm	50.0 µm	75.0 µm	100.0 µm
Differential Pressure	psid	2.13	1.74	1.17	0.68	0.43	0.27	0.26	0.21
	mbard	147.10	119.64	80.41	47.07	29.42	18.63	17.65	14.71

## Initial Particle Removal Efficiency

Filter	Removal Efficiency	Partical Size
PET001	>90%	5 um
PET003	>90%	7 um
PET005	>90%	9 um
PET010	>90%	11 um
PET025	>90%	18 um
PET050	>90%	25 um
PET075	>90%	45 um
PET100	>90%	50 um

## Ordering Guide

Cartridge order numbers have several variables from pore size to end cap type. For example: PET cartridge, 5.0 Micron Rating, 10" Length, Double Open End with Gasket, Silicone Gaskets, =PET00510GS



### Microfine Filters

For Technical queries, please drop us an email at: [technical@microfinefilters.com.tw](mailto:technical@microfinefilters.com.tw)

For all matters related to sales or distributorship please contact us at: [sales@microfinefilters.com.tw](mailto:sales@microfinefilters.com.tw)

For more details visit our website: [www.microfinefilters.com.tw](http://www.microfinefilters.com.tw)