

Micro-Klean™ MP Series

Polyolefin Depth Filter Cartridge



The Micro-Klean™ MP series filter is a depth filter cartridge developed for use in the paints and coatings industry, offering premium features including:

- Manufactured to 3M quality control inspection standards to ensure consistent and reproducible filter performance
- Constructed using bicomponent fibers that are thermally bonded, resulting in a rigid structure ideal for filtering high viscosity fluid
- Graded density structure that provides high filtration efficiency with increase filter service life

Features and Benefits

Features	Benefits
Thermally bonded bicomponent fibers	<ul style="list-style-type: none"> • The high degree of fiber to fiber thermal bonding provides a rigid structure that eliminates any possibility of media migration
Rigid structure	<ul style="list-style-type: none"> • Eliminate cartridge by-pass and unloading to provide consistent filtration throughout filter life • Able to withstand and do not deform under high differential pressure, making it ideal for use in high viscosity fluid filtration
Depth filter with a graded density structure	<ul style="list-style-type: none"> • High dirt holding capacity and long service life • Excellent removal of deformable contaminants for consistent effluent and reduces occurrence of fish eye defects
High cleanliness for use in coating applications	<ul style="list-style-type: none"> • Minimum flushing required • Minimizes foaming of the filtrate

Applications

- Pre-treatment of base surface
- Automotive electrodeposition process
- Electroplating process
- Paint and Ink filtration



Automobile



Equipment and Appliances



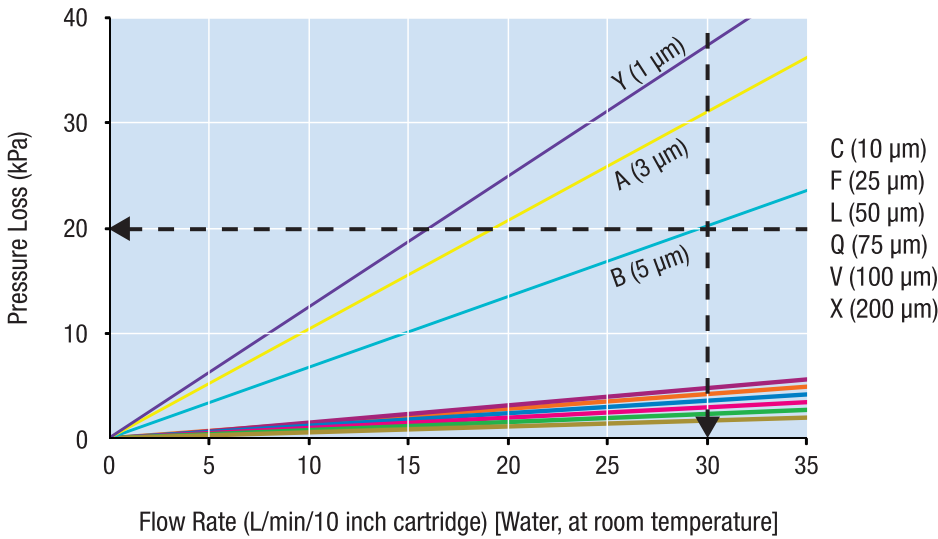
Printing

Specifications

Filtration Ratings (nominal)	1, 3, 5, 10, 25, 50, 75, 100, 200 µm	
Cartridge Length (nominal)	5" (125 mm), 9¾", 19½", 29¼"	
Inner Diameter of Cartridge	28 mm, 30 mm	
Material	Polyolefin Bicomponent Fiber	
Operating Parameters	Maximum Operating Temperature	80 °C (176 °F)
	Maximum Differential Pressure	0.55 MPa @ 20 °C (80 psid @ 68 °F) 0.3 MPa @ 80 °C (43 psid @ 176 °F)
	Recommended Change-out Differential Pressure	0.14~0.21 MPa (20.3 – 30.5 psid)



Recommended Flow Rate



* During actual filter operation, it is recommended that the initial pressure loss should be below 20 kPa with a flow rate not exceeding 30 L/min/10 inch cartridge.

Ordering Guide

Cartridge Type	Nominal Cartridge Length (Inches)	Grade (Nominal)	Material	Configuration	O-ring / Gasket Material	Inner Cartridge Diameter
MP	05 5" 09 9¾" 19 19½" 29 29¼"	Y 1 µm A 3 µm B 5 µm C 10 µm F 25 µm L 50 µm Q 75 µm V 100 µm X 200 µm	11 Polyolefin	N Flat end	N No gasket	S 28 mm L 30 mm

Example

MP	9¾ inch	5 µm	Polyolefin	Flat end	No gasket	28 mm
▼	▼	▼	▼	▼	▼	▼
MP	09	B	11	N	N	S

- Packaging Per Box**
- Code 05 – 100 pieces per box
 - Code 09 – 50 pieces per box
 - Code 19 and 29 – 25 pieces per box

Important Notice

The information described in this literature is accurate to the best of our knowledge. A variety of factors, however, can affect the performance of the product(s) in a particular application, some of which are uniquely within your knowledge and control. **INFORMATION IS SUPPLIED UPON THE CONDITION THAT THE PERSONS RECEIVING THE SAME WILL MAKE THEIR OWN DETERMINATION AS TO ITS SUITABILITY FOR THEIR USE. IN NO EVENT WILL 3M PURIFICATION INC. BE RESPONSIBLE FOR DAMAGES OF ANY NATURE WHATSOEVER RESULTING FROM THE USE OF OR RELIANCE UPON INFORMATION.**

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