Pall Corporation

Profile® M and N Filter Cartridges

The Profile M and N range of filter cartridges are the latest addition to the Profile family of products and have been designed specifically to meet the needs of the automotive paint industry, in particular, the exacting requirements of mica and metallic automotive paint filtration both solvent based and waterborne.

Filtration with no Color Shift

The structure of the filter medium has been designed particularly for fluid classification, that is, it will leave particles of a certain size and smaller unaffected while ensuring the removal of larger particles. Therefore, with appropriate filter selection, the essential solids in the paint, the pigments, aluminium and mica particles can pass through the filter while agglomerates and contaminants will be removed.

Consistent Reliable Performance

The Profile M and N range of filters are manufactured from effectively continuous fibers that are intertwined and bonded together during the spinning process. As a result, there is no media migration or unloading of contaminants from the filter medium as determined by standard tests. The filtrate quality is consistent and re-work due to paint defects can be significantly reduced.

Low Extractables

The filter is constructed entirely from polypropylene and has a wide chemical compatibility. In addition, no silicone, surfactants, regrind or binders are used during the production process. The Profile M and N filter cartridges can therefore withstand the current operating conditions and there is a negligible level of extractables and no detectable silicone.

Quality

Profile M and N filter cartridges are manufactured to a very high standard of quality assurance and cleanliness and in accordance with BS EN ISO 9001:2008. It is the ideal disposable filter option for metallic/mica paints.

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Operating Characteristics

Maximum operating differential pressures and temperatures in compatible liquids

Maximum Differential Pressure (ΔP)	Operating Temperature
4.0 bard (58 psid)	up to 30 ˚C (86 °F)
3.4 bard (49 psid)	up to 50 ˚C (122 °F)

In fully compatible liquids which do not soften, swell or attack the filter.

Liquid Flow Rate versus Differential Pressure

Flow Rate	Differential Pressure
5 -10 l/min (1.3 – 2.64 US gpm)	0.2 - 0.4 bar (2.9 – 5.8 psi)

Optimum flow for 254 mm (10”) nominal length cartridge and solvent based and waterborne paints.

It is advisable to change the filter element when differential pressure reaches 1.5 - 2 bar (21 – 29 psi)

Ordering information

This is a guide to the part numbering structure only, for availability of specific options, please contact Pall.

AB [1] Y [2] 18 J

R [1] F Y [2]

RM [1] F Y [2]

Table 1: Nominal Cartridge Length

Code	Description
1	254 mm (10")
2	508 mm (20")
3	762 mm (30")
4	1016 mm (40")

Table 2: Media Option

Code	Description
M	Coarse grade media for use in metallic/mica paint applications
N	Coarse grade media for use in metallic/mica paint applications

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Because of technological developments related to the products, systems, and/or services described here in, the data and procedures are subject to change without notice. Please consult your Pall representative or visit www.pall.com to verify that this information remains valid.

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