

# MF ResinBonded

Resin Bonded Acrylic Phenolic (AP) or Cellulose Melamine (CM)



The **Masterfilter ResinBonded** filters are manufactured from fibres bonded together by a resin, thereby creating 'rigid graded density' depth filters. **ResinBonded** filters are available either as the AP (Acrylic fibre bonded with Phenolic resin) or as the CM (Cellulose fibre bonded with Melamine resin). Bonding the fibres with the resin, creates a rigid pore structure that allows the filter to be used in demanding process conditions, such as high temperatures, high viscosities and with aggressive chemicals.



## Applications

**ResinBonded** is ideal for retention of micro-gels, colloids, agglomerates and other polymorphous particulates and unlike the deformable 'melt-blown' and 'string-wound' filters, it prevents unloading of the contaminant under pressure. The unique manufacturing process coats the fibres with the resin and so forming a high density torturous matrix with high void volume. These features enable the **ResinBonded** filters suitability across a wide range of applications.

- Paints
- Organic solvents
- Waxes
- Lubricants
- Polishes
- Inks
- Emulsions
- Process Water
- Light oils
- Transformer oils
- Adhesives
- Varnishes
- Fertilisers
- Coolants
- Dielectric oils
- Epoxy resins
- Lacquers
- Pesticides
- Cutting fluids
- Chemicals

\* Resin Bonded filters are not designed to be used in Food & Beverage or Pharmaceutical applications | Please refer to office for advice

## Features and Benefits

Features	Benefit
<b>Rigid resin bonded construction</b>	No by-pass of fluids and contaminant unloading under pressure
<b>Graded pore density (matrix)</b>	High porosity with low pressure drop and filtration consistency
<b>Coreless structure</b>	Low disposable cost – no metals or plastics
<b>Grooved Structure</b>	Increases surface area allows better life to blockage
<b>Made from continuous 20" modules (40"=2X20")</b>	Reduced channelling between ends, no by-pass of fluid and less brittle at joints
<b>Broad micron range (1-100um)</b>	Suitable for wide range of applications and contaminants

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## Material of Construction

Formulation	Fibres	Resin	Core	Visual Appearance	Dimensions mm (ID/OD)
AP	Acrylic	Phenolic	None	Brown / Grooved	28.0/62.5
CM	Cellulose	Melamine	None	White / Grooved	28.0/62.5

## Operating Conditions

Maximum operating temperature: 120 °C / 248 °F

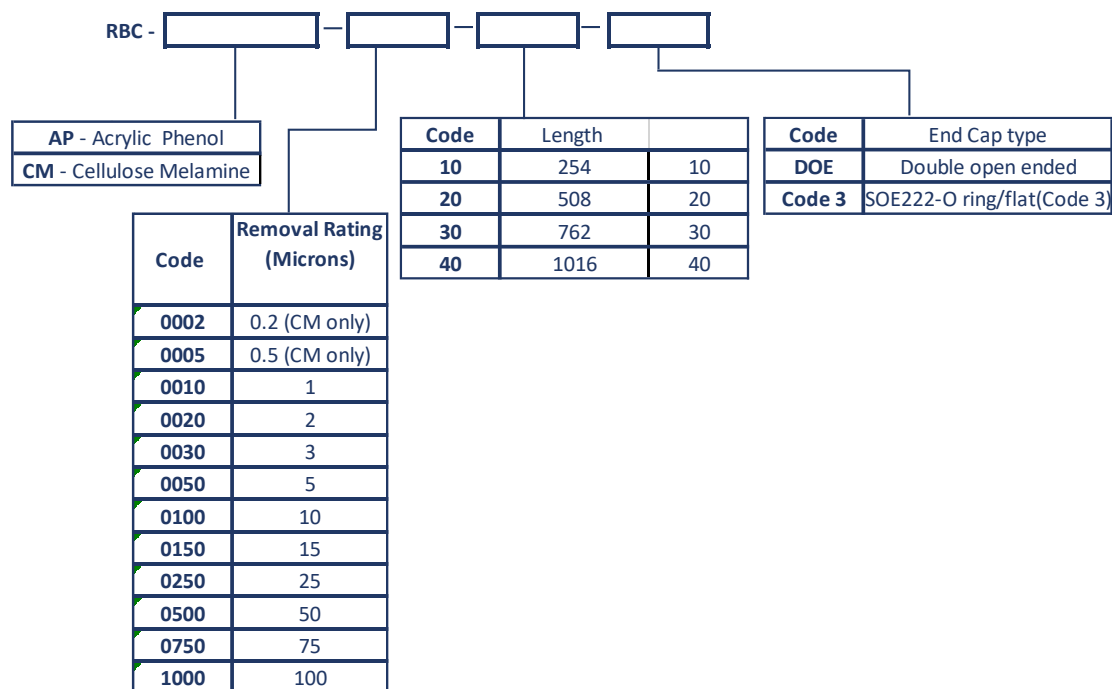
Max differential pressure change out : < 72 PSID / 5 Bar

Recommended maximum differential pressure change out : <58 PSID / 4 Bar \*

## Ordering Information

e.g: RBC-AP-0050-40-DOE

Acrylic Phenolic filter, 5um, 40 inch, Double open end



\*please refer to office for accurate sizing as fluid viscosity and operating pressures will affect maximum change out pressure