Bonfil™ is a resin bonded filter that is constructed using an advanced manufacturing process producing a rigid graded density filter.

The rigid phenolic resin structure ensures that our Bonfil™ filters can withstand high viscosities and temperatures without deformation or collapse of the pores.

The structure prevents the off-loading of particles captured, as the differential pressure rises across the filter.

Having a castellated outer surface increases the effective surface area, thereby lowering the differential pressure and increasing the dirt holding capacity of the filter.

Overall, Bonfil™ is an effective filter for removal of gels, deformable agglomerates, and other process by-products in conditions where high viscosity, high temperatures and aggressive liquids are present.

Features and Benefits

- **Graded pore density**
  Consistent filtration with lower differential pressure drop across the cartridge ensures longer filter life.

- **Castellated**
  Increased surface area for greater dirt holding capacity.

- **Resin bonded rigid structure**
  Prevents off-loading of contaminant during pressure surges and high differential pressure.

- **Broad chemical compatibility**
  Suitable for aggressive chemical applications.

- **Low disposable costs**
  Coreless filter, does not contain plastics or metals and easily crushed or shredded.

- **Broad range of micron sizes (1µm to 150µm)**
  Suitable for clarification and removal of gels and deformable agglomerates.

Applications

- Organic chemicals
- Process water
- Inks and paints (not for electrophoretic paints)
- Emulsions
- Adhesives
- Lacquers and varnishes
- Epoxy resins and waxes
- Plasticisers
- Coolants, machine oils and manufacturing fluids
- Fertilisers and pesticides
Specifications

Operating Characteristics

Maximum change out differential pressure:
50 psid (3.45 bar).

Recommended change out differential pressure:
35 psid (2.41 bar).

Maximum operating temperature:
121°C (250°F).

Materials of Manufacture

<table>
<thead>
<tr>
<th>Formulation code</th>
<th>Fibre</th>
<th>Resin</th>
<th>Removal rating (µm)</th>
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<tbody>
<tr>
<td>EP</td>
<td>Polyester</td>
<td>Phenolic resin</td>
<td>1 to 150 micron</td>
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<tr>
<td>AP</td>
<td>Acrylic</td>
<td>Phenolic resin</td>
<td>1 to 150 micron</td>
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Part Number/Ordering Guide for Resin Bonded Filters

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<tr>
<th>Micron Rating (µm)</th>
<th>Method of Construction</th>
<th>Length (in)</th>
<th>Adapter Options</th>
<th>Seals</th>
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