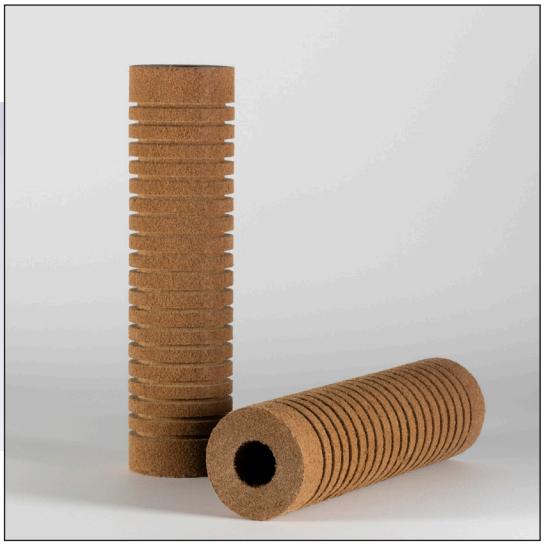
porvair filtration group

Bonfil™

Resin Bonded Grooved Filters



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.

Typical 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

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.

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

Formulation code	Fibre	Resin	Removal rating (µm)
AP	Acrylic	Phenolic resin	1 to 125 micron

Part Number/Ordering Guide for Resin Bonded Filters

Product Code: D xx xx xx E.g: D10AP09 = 10µm Acrylic 9.75" long

Micron Rating (µm)	
01	1
02	2
03	3
05	5
10	10
25	25
50	50
75	75
100	100
125	125

Method of Construction	
AP	Acrylic fibres Phenolic resin

Length (in)	
09	9.75
10	10
19	19.5
20	20
29	29.25
30	30
39	39
40	40

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