

## 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)	Method of Construction	Length (in)
01 1	AP Acrylic fibres Phenolic resin	09 9.75
02 2		10 10
03 3		19 19.5
05 5		20 20
10 10		29 29.25
25 25		30 30
50 50		39 39
75 75		40 40
100 100		
125 125		