

# Hypure\* AF

## resin bonded filter cartridge

The Hypure AF filter (Figure 1) is a resin- bonded filter cartridge suitable for a wide range of applications. Hypure utilizes phenolic impregnated acrylic and polyester fibers for efficiency and long life. Uses for Hypure include adhesives, coatings, inks, and many more applications for both aqueous and solvent based fluids.

### features and benefits

- High dirt holding capacity
- Wide range of micron retention
- Faster flow rates
- High efficiency
- Less change-outs
- Consistent quality

### applications

- Printing inks
- Water
- Hot, non-aqueous fluids
- Adhesives
- Antifreeze
- Insecticides
- Photo resists
- Solvents
- Paints and varnishes
- Thinners
- Fuels and Lubricating oils
- Coolants
- Coatings

## Water Technologies & Solutions fact sheet



**Figure 1: Hypure AF filters**

### general properties

Tables 1, 2, 3, and 4 provide information on dimensions and flow performance.

**Table 1: Materials of Construction**

<b>Media</b>	Phenolic impregnated acrylic and polyester fibers
<b>Adapters</b>	Nylon, Polypropylene

**Table 2: Nominal Dimensions**

<b>Outside Diameter</b>	2 9/16" (65 mm)	
<b>Inside Diameter</b>	1 1/8" (28.6 mm)	
<b>Available pore sizes</b>	2, 5, 10, 15, 25, 50, 75, 100, 125, 150 μm	
<b>Available lengths</b>	9 3/4" (24.8 cm)	29 1/4" (74.3 cm)
	10" (25.4 cm)	30" (76.2 cm)
	19 1/2" (49.5 m)	39" (99.1 cm)
	20" (50.8 cm)	40" (101 cm)

**Table 3: Maximum Operational Limits**

<b>Temperature</b>	250°F (121°C)
<b>Flow rate</b>	5 gpm per 10 in. length or 18.9 lpm per 254 mm length
<b>Forward pressure drops</b>	150 psid (10 bar) @ 70°F (21°C)
	125 psid (8.6 bar) @ 100°F (38°C)
	90 psid (6.2 bar) @ 150°F (65°C)
	65 psid (4.5 bar) @ 180°F (82°C)
	25 psid (1.7 bar) @ 250°F (121°C)

**Recommended Change Out pressure drop** 50 psi (3.5 bar)

**flow factors**

Rating (μm)	Flow Factors
2	0.08
5	0.04
10	0.02
25	0.012
50	0.01
75	0.006
125	0.0013
150	0.001

**length factor**

1. Clean ΔP is PSI differential at start
2. Viscosity is centipoise
3. Flow Factor is ΔP/GPM at 1 cps for 10 in. (single)

**pressure differential calculation**

$$\text{Clean } \Delta P \text{ (psid)} = \frac{\text{Flow rate (gpm)} \times \text{Viscosity (cP)} \times \text{Flow Factor}}{10 \text{ in equivalent (TIE)}}$$

**ordering information**

Type	Nominal Micron Rating (μm)	Length, inch (cm)	End #1 Adapter	End #2 Adapter	Elastomer Material
HAF	02 = 2	9 3/4 (24.8)	E = 222 O-ring	S = Solid End	O-Rings
	05 = 5	10 (25.4)	L = Extended Core	X = Plain End (no gasket)	S = Silicone
	10 = 10	19 1/2 (49.5)			V = Viton <sup>1</sup>
	15 = 15	20 (50.8)	X = Standard Plain End (no gasket)		B = Buna
	25 = 25	29 1/4 (74.3)			
	50 = 50	30 (76.2)			
	75 = 75	39 (99.1)			
	100 = 100	40 (101.6)			
	125 = 125				
	150 = 150				

Adapters: E (222)- Nylon, L (Extended Core) - Polypropylene

All filters – 15 per case.

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