

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



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

| | |
|-----------------|---|
| Media | Phenolic impregnated acrylic and polyester fibers |
| Adapters | Nylon, Polypropylene |

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Table 2: Nominal Dimensions

| | | |
|-----------------------------|--|-------------------|
| Outside Diameter | 2 9/16" (65 mm) | |
| Inside Diameter | 1 1/8" (28.6 mm) | |
| Available pore sizes | 2, 5, 10, 15, 25, 50, 75, 100, 125, 150 μm | |
| Available lengths | 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

| | |
|-------------------------------|---|
| Temperature | 250°F (121°C) |
| Flow rate | 5 gpm per 10 in. length or 18.9 lpm per 254 mm length |
| Forward pressure drops | 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 ¹ |
| | 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.