

# Hypure\* Resin-Bonded Fiber Glass Filter Cartridges



**Figure 1: Hypure Resin-Bonded Fiber Glass Filter Cartridges**

## Description and Use

The Hypure Advantage, lower cost per gallon filtered. The Hypure filter (Figure 1) is the only resin-bonded glass fiber filter cartridge currently on the market. The glass fiber construction allows more void volume and greater number of pores—which enable Hypure to filter more gallons per cartridge than competing resin-bonded and string wound filters.

## Typical Applications

- Printing inks
- Fuels
- Lubricating oils
- Paints and varnishes
- Photo resists
- Coolants
- Solvents

- Coatings
- Water
- Antifreeze
- Thinners
- Hot, non-aqueous fluids
- Insecticides

## General Properties

### Features and Benefits

- Holds more dirt
- Higher efficiency
- Less change-outs
- Faster flow rates
- Consistent quality

Hypure Filters are available in 1, 3, 5, 10, 15, 25, 50, 75 and 100 microns. Tables 1 and 2 provide more information on materials of construction and filter lengths/dimensions. Table 6 provides ordering information.

**Table 1: Materials of Construction**

Coreless	40 psi (2.8 bar)
Tin-coated steel core	70 psi (4.8 bar)
Polypropylene core	75 psi (5.2 bar)
Heavy tin/heavy poly core	125 psi (8.6 bar)

**Table 2: Filter Lengths and Diameters**

Selected Lengths							
Inches	9.75	10	19.5	20	29.25	30	39
Centimeters	24.8	25.4	49.5	50.8	74.3	76.2	99.1
Standard Diameters							
Outside Diameter	2.60						
Inside Diameter	1-inch nominal						



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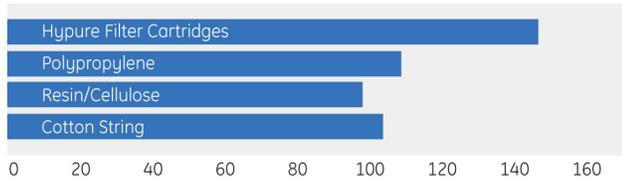
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FS1088EN 0603

**How longer filter life saves you money.** Table 3 shows the relative life characteristics of several types of depth filter cartridges commonly used in industrial filter applications. This increase in filter life, often as high as 40%, translates into significant cost savings in a variety of cost centers (Table 4).

**Table 3: Relative Cartridge Life Percentage**



**Table 4: Coatings Operation Audited Costs**

Cartridge costs	10% more
Cartridge usage	20% less
Filter downtime	20% less
Filtrate losses	5% less
Cleanup costs	2% less
Inventory costs	16% less
Changeout labor	20% less
Disposal costs	35% less
Equipment wear	2% less
<b>Overall savings using Hypure* Filter Cartridges: 25%</b>	

Actual savings vary from application to application and site to site. For processes using batch filtration, additional savings can be realized by using smaller or fewer housings, since fewer Hypure filters are needed to filter a batch size.

In order to size a housing, several variables must be determined: the micron size, pressure drop, maximum flow rate and fluid viscosity. If any three

**Table 6: Ordering Information**

Stocking Material	Core Type	Nominal Micron Rating	Length: inch	(cm)
C = Cotton	T = Tin-Coated steel	01 µm	9.75	(24.8)
NS = No stocking	HT = Heavy tin-coated steel	03 µm	10.0	(25.4)
	P = Polypropylene	05 µm	19.5	(49.5)
	HP = Heavy polypro	10 µm	20.0	(50.8)
	N = No core	15 µm	29.25	(74.3)
		25 µm	30.0	(76.2)
		50 µm	39.0	(99.1)
		75 µm	40.0	(101.6)
		100 µm		
<b>Example: CT15-9.75</b>				

No stocking (NS) and no core (NC) are priced as cotton stocking polypropylene core (NP) cartridges

are known, the fourth may be plotted on the nomograph below (Table 5). Example:

1. Draw a line from the desired Micron Size (Cartridge Type) through the desired initial Pressure Drop to intersect with Index Line.
2. Draw a second line from Fluid Viscosity through the Index Line intersection to determine the recommended Flow Rate.
3. Read Flow Rate in GPM.

**Table 5: Nomograph for High Viscosity Liquids**

