Industrial filtration

Betapure SKYL filter cartridges

Polypropylene, non-woven depth filters

Thermo Scientific™ Betapure™ SKYL Filter Cartridges are a non-woven depth filter produced from polypropylene fibers providing a high filtration efficiency as well as high flow rates.



Applications

- CMP Slurry
- Chemicals
- Industrial water
- Food and beverages
- Paints and coatings
- Inks
- Adhesives
- Ceramic slurries

Features and benefits

Use of non-wovens technology

- Provides high flow rates and low-pressure drop with excellent filtration efficiency

Non-woven fiber construction

- Excellent removal of large particle count helps in reducing defectivity and improving yields
- High contaminant holding capacity helps reduce downtime and increase overall equipment effectiveness

100% Polypropylene construction

- Excellent chemical compatibility with low and high pH slurries and solvents

Quality manufacturing

- Controlled quality from non-wovens to cartridge construction, minimizes product variation to provide consistent product effluent

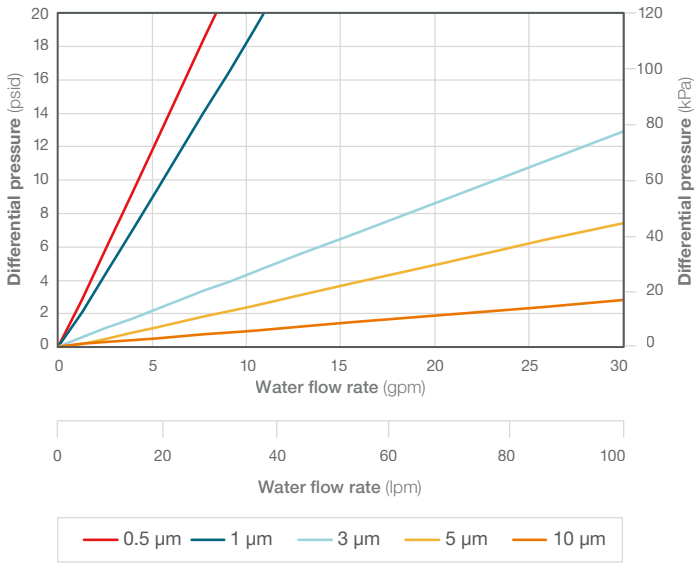


Figure 1. Test fluid: Water flow at ambient temperature 10-inch cartridge. Betapure SKYL filter cartridge flow rate vs. differential pressure

Operating parameters and specifications

Materials of construction		
Materials of construction	Filter media	0.5, 1, 3, 5, 10 µm
	Core	Polypropylene
	Adapter	Polypropylene
	Gasket	Polyethylene
	O-rings	Silicone, EPR
Operating parameters	Maximum operating temperature	176ºF (80ºC)
	Maximum differential pressure	52.2 psid @ 77°F (360 kPa @ 25°C) 29.0 psid @ 131°F (200 kPa @ 55°C) 14.5 psid @ 176°F (100 kPa @ 80°C)
	Recommended change-out differential pressure	20.3 - 30.5 psid @ 77ºF (140 - 210 kPa @ 25°C)

Compliance

Standard
ISO 9001 Registered Quality System
Certain Betapure SKYL products are compliant with Japan MHLW- Food Sanitization Act. Contact your Thermo Fisher Scientific representative for detailed declaration of compliance information for food contact applications.

Betapure SKYL filter cartridges ordering guide

Cartridge type	Grade code	Grade rating (µm)	Configuration	Length (inches)	End modification	Gasket/O-ring material
SKYL	0050 0100 0300 0500 1000	0.5 1 3 5 10	P	9 / 9.75 in 19 / 19.5 in 29 / 29.25 in 02 / 2 in* 10 / 10 in 20 / 20 in 30 / 30 in	B - 226 O-ring & spear C - 222 O-ring & spear F - 222 O-ring & flat cap N - Double open end	A - Silicone C - EPR G - Polyethylene**

*Available only in FC configuration (222 flat with EPR gasket), 3 standard pack.

**Available only in double open end configuration.

Please consult with your Thermo Fisher Scientific representative to determine the approriate part number for your application.

Intended Use: Betapure SKYL filter cartridge products are intended for use in industrial, chemical, electronics, and food and beverage filtration applications of aqueous and non-aqueous fluids in accordance with the product instructions, specifications and where materials of construction are compatible.

Certain Betapure SKYL filter cartridge products are compliant for use in food and beverage applications. For specific details regarding use or limitations for food contact applications please contact your Thermo Fisher representative for more information.

Since there are many factors that can affect a product's use, the customer and user remain responsible for determining whether the Thermo Scientific product is suitable and appropriate for the user's specific application, including user risk assessments and evaluation of the Thermo Scientific product in the user's application.

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