PORPRO I (Nominal pleated filter)

Description

PORPRO I cartridges are made of 100% pure polypropylene, polyethylene and nylon depth matrix that offers nominal retention grade. This filters with multi graded fiber that yields progressive finer particles retention through the depth and life of media.
This filters are available in a range of formats, pore sizes, lengths and connections to suit your individual application..

Features

- High particle retention
- High flow rates and superior throughputs
- Good chemical compatibility
- All materials are FDA listed for meeting with food and beverages
- Thermal bonding

Applications

Pharmaceutical Industry	Ointments, pre-filter
Food and Beverage Industry	Corn syrup, edible oil, bottle water, beer, soft drinks and distilled spirit
General Process Industry	Adhesive, audio and videotape, automotive paint, computer tape coating, floppy disc coating, reverse osmosis system pre-filtration, pre-and/or final-demineralization
Chemical & Petrochemical Industry	Momomer, polymers, glycol, photo-resist, deep disposal well fluid, mono-ethanol- amine and di-ehtanol-amine for gas scrubbing, acid, base and product polishing
Electronic Industry	Photo-resist, reverse osmosis pre-filtration, DI water pre-filtration and post-filtration
Film and Fiber Industry	Monomers, slurry additive, de-usterant, slip agent, spin finishe and aqueous salt solution

Specifications

Dimension & Structure	Length	9.75", 10", 19.65", 20", 29.5", 30" 39.5", 40" / 250, 254, 500, 508, 750, 762, 1000, 1016 mm
	ID	30 mm
	OD	68 mm
	Effective filtration area	0.53 ~ 0.60 m^2 per 10 inch
Materials of Construction	Filtration media	Polypropylene, polyester, nylon
	Support layers	Polypropylene
	Core & case	Polypropylene, reinforced PP by talc, high density polyethylene
	O-ring & gaskets	Silicone, EPDM, Viton, TEV
Operating Conditions	Maximum differential pressure	30 psid / 2.1 bar at 60 ℃ 60 psid / 4.2 bar at 30 ℃
	Maximum operating temperature	176 ℉ / 80 ℃

Liquid Particle Retention Ratings

Removal Rating (µm)	β= 1,000	β= 100	β= 10
	99.90%	99.00%	90.00%
0.2	< 1.9 *	< 0.84 *	< 0.2 *
0.45	4.0	2	< 0.45 *
1	8	3.5	< 0.8 *
3	12	7	2.8
5	20	11	4.5
10	27	15	8.5
30	43	31	26

* Extrapolated value

Pressure Drop vs. Water Flow Rate (Polypropylene)