

PORPRO II (PP absolute depth pleated filter)

Description

PORPRO II cartridges are pleated, depth all polypropylene with multi-layers media.

This filters are ideally suited for the removal of agglomerated particles and gels from slurries used in the chemical mechanical polishing (CMP) of oxide, tungsten and copper.

This is accumulated by technical know-how for high flow rate and efficiency filtration.



Features

- Superior high flow rate
- Good removal capability of gel and viscous liquids
- Free of surfactants, binders and adhesives
- All materials meet FDA listed for 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	Monomer, polymers, glycol, photo-resist, deep disposal well fluid, mono-ethanol-amine and di-ethanol-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"
	ID	/ 250, 254, 500, 508, 750, 762, 1000, 1016 mm
Materials of Construction	OD	30 mm
	Effective filtration area	68 mm
Operating Conditions	Filtration media	0.26 ~ 0.60 m ² per 10 inch
	Support layers	Pleated multi-layers of graded-density melt-blown polypropylene
	Core & case	Polypropylene
Operating Conditions	O-rings & gaskets	Polypropylene, reinforced PP by Talc, high density polyethylene
	Maximum differential pressure	Silicone, EPDM, Viton, TEV
Operating Conditions	Maximum operating temperature	30 psid / 2.1 bar at 60 °C
		60 psid / 4.2 bar at 30 °C
		176 °F / 80 °C

Liquid Particle Retention Ratings

Removal Rating (μm)	$\beta = 1,000$	$\beta = 100$	$\beta = 10$
	99.90 %	99.00 %	90.00 %
1	6	2.5	< 0.7*
2	9	5	< 1.8*
4.5	14	8	3.8
6	17	10.5	5.2
10	22	12.8	8.2
20	34	24.5	17.5

* Extrapolated value

Pressure Drop vs. Water Flow Rate

