

PORPRO III (PP absolute pleated filter)

Description

PORPRO III cartridges are made of 100% pure polypropylene depth matrix that offers absolute 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

- Absolute filtration
- Good chemical compatibility
- Melt-blown polypropylene media protects against shedding and particle unloading
- Thermal bonding
- All materials meet FDA listed for food and beverages
- Manufactured in clean room environment (class 1,000)
- Manufactured by ISO 9001 quality control system

Applications

General Industry	Inks and dye, process water, serum and tissue culture media, acid, base and oxidant
Beverage Industry	Wine, beer, fruit Juice, bottled water
Pharmaceutical & Biological industry	Final filtration of drug, biological, pure water for dialysis, diagnostic, final filtration of water for injection, LVPs, SVPs, tissue culture media

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	0.45 ~ 0.60 m ² per 10 inch
Materials of Construction	Filtration media	Pleated depth matrix polypropylene
	Support layers	Polypropylene
	Core & case	Polypropylene, reinforced PP by talc, high density polyethylene
	O-rings & gaskets	Silicone, EPDM, Viton, TEV
Operating Conditions	Maximum differential pressure	36.3 psid / 2.5 bar at 60 °C 69.6 psid / 4.8 bar at 30 °C
	Maximum operating temperature	176 °F / 80 °C

Liquid Particle Retention Ratings

Removal Rating (μm)	$\beta = 5,000$	$\beta = 1,000$	$\beta = 10$
	99.98%	99.90%	90.00%
0.6	< 0.6 *	< 0.5 *	< 0.5 *
0.8	< 0.8 *	< 0.6 *	< 0.5 *
1	< 1 *	< 0.8 *	< 0.8 *
5	5	3	< 1*
10	10	7	5
20	20	12	10

* Extrapolated value

Pressure Drop vs. Water Flow Rate

