

Filter Cartridge

Pleated filter element entirely made of Polyester,
specific for critical applications

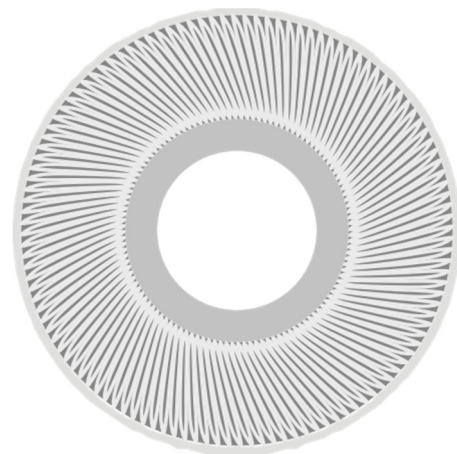
MICROPRO PLX

The dependability of a 100% Polyester element, the safety and precision of a pleated cartridge.

Today's market demands filtering systems featuring high compatibility with chemicals and designed to withstand high temperatures.

MICROPRO PLX® is a valid alternative to Micropro (PP) and Micropro NY (Nylon) in the filtration of solvents, acid and basic solutions or whenever Polypropylene and Nylon are not compatible with the operating conditions. Both the structure and the filter medium are totally made of Polyester to make the cartridge suitable for use with solvents, hydrocarbons and organic compounds.

The multi-layers of decreasing porosity media provide good filtration performance, high dirty holding and precise filtration ratings.



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TECHNICAL SPECIFICATIONS

- High filtration area (>0.5m²/10"), low pressure drop, high dirt holding and long service life
- Sanitization with steam, hot water and chemicals
- Withstands temperatures of up to 120°C
- Compatible with solvents (chlorinated solvents), organic compounds (benzene, Xylene, toluene), hydrocarbons, amines, acids and bases, inks and lacquers
- FDA listed material per CFR21

FILTRATION RATINGS (MICRON)

0.5 - 0.6 - 1.0 - 3.0 - 5.0 - 10.0 - 20.0

OPERATING CONDITIONS

Max temperature in continuous operation	120°C @ 1.0 bar - 60°C @ 1.5 bar
Maximum operating pressure (Δp)	5 bar @ 25°C
Recommended replacement pressure drop	2.5 bar
Steam sterilization	121°C, 20 mins, 10 times

FLOW RATES

Filtration rating (micron)	Water flow rate 10" (l/h @ Δp 0.1 bar)
0.5 // 0.6	500
1.0	1000
3.0	2400
5.0	4000
10.0 // 20.0	6000

CHEMICAL COMPATIBILITY@20°C

Benzene	Ethanol	Hydrocarbons amines	Toluene
Butyl acetate	Ether petroleum	Hydrofluoric Acid 20%	Tetrahydrofuran
Butyl alcol	Ethylic ether	Hydrogen Peroxide 30%	Xylene
Carbon tetrachloride	Formaldehyde 30%	Methyl acetate	
Cyclohexane	Formic acid 20%	Phosphoric acid 20%	Mineral oils
Dioxane	Hexane	Sulphuric acid 5N	Inks

SEALING

Ultrasound / Heat sealing

CONSTRUCTION SPECIFICATIONS

Filtration media	Polyester
Supports	Polyester
Internal core / External cage	Polyester
End caps adapter	Polyester
Gaskets	Silicone (standard), EPDM, Viton, FEP

DIMENSIONS

Length	254mm (10")-508mm (20")- 762mm (30")-1016mm (40")
Outer diameter	69 mm
Inner diameter	26 mm

TRACEABILITY

Each filter element is identified by a lot number for complete traceability.