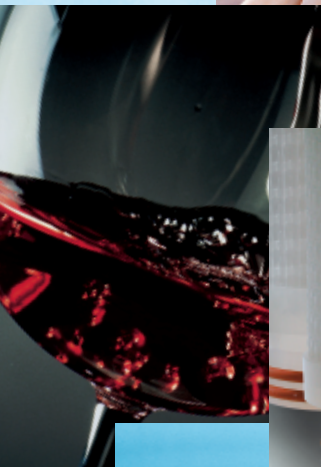
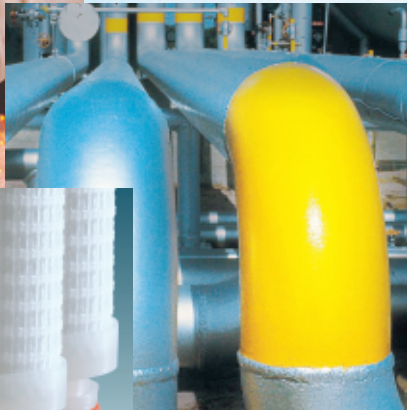
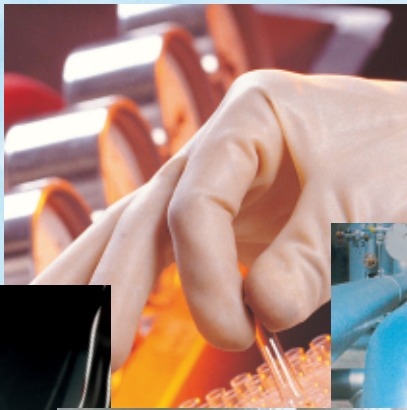


DEPTH FILTER CARTRIDGE IN MELT-BLOWN POLYPROPYLENE MICROFIBERS



MATROX[®]

A safe, versatile and cost-effective depth filtration cartridge.

Depth filtration is an indispensable process to eliminate residual impurities and to drastically reduce the content of contaminants with particle grades over 1 micron. Matrox[®] is the ideal solution for these applications as its micrometric pore stability ensures a filtration efficiency of over 95%.

Matrox[®] depth filters are made entirely of graded density polypropylene microfibre. The external low density part of the filter separates coarser particulate, preventing the premature blocking of the cartridge. The internal, higher density part separates finer particulate. This configuration also gives the cartridge a superior contaminant holding capacity.

The use of bonding processes in assembly without the use of resins or adhesives eliminates all extractables and makes the whole component compact and resilient.

The Matrox[®] cartridge is biologically inert, and does not release or trap odour, tastes or colour.

MATROX®

A safe, versatile and cost-effective depth filtration cartridge.



MELT-BLOWN FILTER MATRIX
GRADED DENSITY CONSTRUCTION



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TECHNICAL SPECIFICATIONS

- high dirt holding capacity
- extremely economical to use
- no fibre release from the filter media
- no colour or odour adsorption
- no release of foreign colour, odour or flavour
- broad chemical compatibility, easily regenerated with chemical products
- uniform filtration across the entire surface
- all materials used in manufacture meet the requirements of FDA CFR Title 21
- all materials used in manufacture compliant with USP class VI, 'Plastic Biosafety'
- thermo-bonded construction with no surfactants, binders or adhesives

OPERATING CONDITIONS

Max. operating temperature	175°F@30 psi (80°C@2,0 bar)
Max. operating pressure	70 psi @85°F (4,5bar@20°C)
Recommended operating pressure	20-30 psi (1,5/2,0 bar)

RECOMMENDED FLOW RATES (H₂O@68°F/10" – 1.0 psid)

MICRON RATING	0.3 µm	3.5 gpm (13 lpm)
"	0.5 µm	4.0 gpm (15 lpm)
"	1.0 µm	4.5 gpm (17 lpm)
"	3.0 µm	6.0 gpm (22 lpm)
"	5.0 µm	7.5 gpm (28 lpm)
"	10.0 µm	8.5 gpm (32 lpm)
"	20.0 µm	11.0 gpm (41 lpm)
"	30.0 µm	15.0 gpm (56 lpm)
"	50.0 µm	17.0 gpm (64 lpm)
"	70.0 µm	20.0 gpm (75 lpm)
"	90.0 µm	22.0 gpm (83 lpm)

SANITISATION

Hot water sanitisation	30 min.@175°F
Steam sterilisation	20 min.@255°F
Chemical sanitisation	with commonly available chemical products

FILTRATION GRADES

0,3 – 0,5 – 1 – 3 – 5 – 10 – 20 – 30 – 50 – 70 – 90 µm

Filtration efficiency: 95%

(ISO4572 ACFTD AC FINE TEST DUST<20 µm / AC COARSE>20 µm)

MATERIALS

Filter media	melt-blown polypropylene no resins or binding agents
upstream/downstream supports	polypropylene
inner support core	polypropylene
outer protection cage	polypropylene
end caps	polypropylene
seals	silicone (standard) Viton®, EPDM, Buna N, PTFE (a richiesta)

DIMENSIONS

Length	254 mm (10"), 508 mm (20") 762 mm (30"), 1016 mm (40")
External diameter	2.71" (69 mm)
Internal diameter	1.02" (26 mm)