

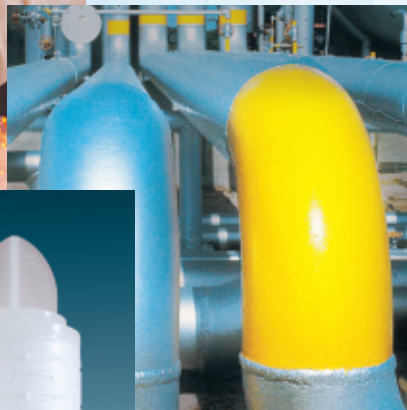
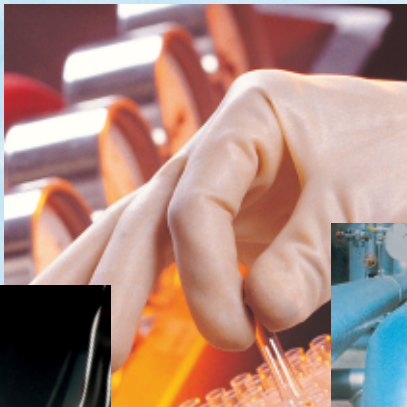
HIGH PERFORMANCE DEPTH FILTER WITH POSITIVE ZETA CHARGE

MICROGLASS® GF

Efficient, economical and safe,
for extreme filtration grades.

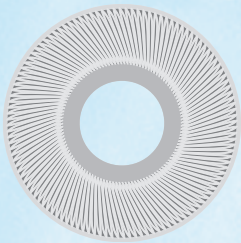
MICROGLASS® GF cartridges have been designed to retain particles, colloids and micro-organisms. These provide the ideal solution for separating sub-micron cloudiness from an extensive range of fluids. The MICROGLASS® GF filtration system consists of different layers of graded porosity borosilicate (z+), sealed in a sandwich of two robust, inert polypropylene or polyester membranes, with the whole assembly thermo-bonded to a polypropylene structure. As with filter sheets, the mechanical retention process is augmented by the electrostatic action of the fibres in the filter media, which remove, by adsorption, all negatively charged particles (yeasts, bacteria, moulds and contaminants) even at dimensions smaller than the removal rating.

MICROGLASS® GF is therefore an excellent prefilter and a valuable ally to prolong the lifespan of the final membrane, preventing its premature blocking. The unique construction results in a very rigid element with outstanding mechanical stability of the filter media, totally preventing fibre release even when the cartridge is subjected to mechanical and physical stress. The use of thermo-bonding and ultrasound bonding processes in assembly without the use of resins or adhesives eliminates all extractables and makes the whole component compact and resilient.



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GRADED DENSITY MULTI-LAYERS



FILTRATION SOLUTIONS

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TECHNICAL SPECIFICATIONS

- absolute retention ratings, consistent quality performance right up until blocking
- high z+ charge and superior fines retention capacity
- controlled porosity and uniform filtration across the entire surface
- no fibre release from the filter media
- no adsorption of colour or odour
- backflush regenerable
- all materials meet the requirements of FDA CFR Title 21 for food contact
- all materials compliant with USP class VI, 'Plastic Biosafety'

OPERATING CONDITIONS

Max. operating temperature	140°F@40 psi (80°C@2.0 bar)
Max. operating pressure (Δp)	70 psi@70°F (5 bar@60°C)
Recommended operating Δp	35 psi (2.5 bar)
Back pressure rating (Δp)	20 psi@100°F (1.5 bar@40°C)

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

MICRON RATING	0,6 μm	5.0 gpm (10 lpm)
"	1,0 μm	6.0 gpm (22 lpm)
"	3,0 μm	8.0 gpm (30 lpm)
"	5,0 μm	9.0 gpm (34 lpm)

SANITISATION

Hot water sanitisation	30 min.@175°F (80°C)
Steam sterilisation	20 min.@250°F (120°C)
Chemical sanitisation	always verify compatibility first

MICRON RATINGS0,5 – 1,0 – 3,0 – 5,0 μm

Filtration efficiency: >99.99%

(ISO4572 ACFTD AC FINE TEST DUST<20 μm / AC COARSE>20 μm)**MATERIALS OF CONSTRUCTION**

filter media	borosilicate
upstream/downstream supports	polypropylene
inner support core	polypropylene
outer protection cage	polypropylene
end caps	polypropylene
seals	Silicone (standard) Viton®, EPDM, Buna N, PTFE

SEALING METHOD

Ultrasound / Thermo-bonding

DIMENSIONS

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

TRACEABILITY

Each filter element is identified with a batch number for complete traceability.