

SPS

[Hydrophilic Polyethersulphone Membrane]

- DI and High Purity Water Filter
- Proprietary Highly Hydrophilic Polyethersulphone Membrane Media and Rapid Rinse Up
- Available in Retention Rating of 0.05, 0.1, 0.2, 0.45 Absolute (Beta Ratio of 10,000, >99.9% retention rating by standard latex bead challenge.)
- Superior Flow Rates and Long Service Life
- High Purity Polypropylene Hardware
- End Configurations to Fit Most Housings
- 100% Integrity testable
- Low extractable levels, no surfactants or adhesives used in manufacturing, fully thermal welded construction.
- Manufactured in a cleanroom environment, cartridge pre-flushed with 18megaohm UPW water.

Applications

UHP Water

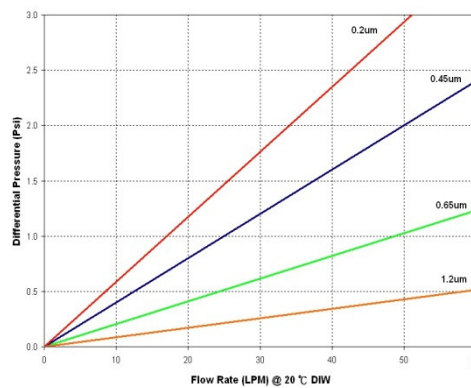
- Central PAD
- UPW Final Filter
- Hot D.I (T-option)
- Point-of-Use

UHP Chemical

- Specialty Chemicals
- Point-of-Use
- Bulk Photoresists and Solvents

Microelectronics

- Semiconductor
- Optical Disks
- Printed Circuits
- Hard Disks



Product Specifications

Materials of constructions:

- ✓ Membrane: Hydrophilic Polyethersulphone
- ✓ Membrane Support/Drainage: Polypropylene (standard)
Polysulfone (T-option)
- ✓ Structural Components: Polypropylene (Standard)
ECTFE (T-option)
- ✓ Seal Material: various
- ✓ Sealing Method: thermal welding

Surface Area (10" cartridge):

- ✓ Minimum ≥ 0.7 m²

Integrity Test:

Bubble Point (As specified in National GMP, 25°C, Pure water):

Per 254 mm / 10" Module

- ✓ 0.05 μ m
<30 cm³/min @ 50 psig / 0.34 MPa
- ✓ 0.1 μ m
<24 cm³/min @ 25 psig / 0.17 MPa
- ✓ 0.2 μ m
<20 cm³/min @ 20 psig / 0.14 MPa
- ✓ 0.45 μ m
<15 cm³/min @ 15 psig / 0.1 MPa

Dimension:

- ✓ Outside Diameter: 2.5" (70 mm) [nominal]
- ✓ Lengths: 2-30 in (10-76 cm)

Recommended Operating Conditions:

- ✓ Maximum operating temperature: 30°C / 86°F (70°C / 158°F)¹
 - ✓ Maximum forward differential pressure: 0.5 MPa @ 20°C / 80 psid @ 68°F
0.14 MPa @ 70°C / 20 psid @ 158°F
- Recommended Operating Conditions:

Performance Specifications

- ✓ Resistivity rinse-up to 18 megohm-cm:
< 35 minutes
- ✓ Single digit ppb TOC rinse-up:
< 35 minutes

Ordering Information	Micron rating selections	Endcaps :	Nominal Length	Seal Material	
SPS (Hydrophilic PES)					
	0004	0.04 μ m	DO – D.O.E	05 – 5"	P – PFA/Viton
	0010	0.10 μ m	TC – 222 o'ring/Flat	10 – 10"	
	0020	0.20 μ m	TF – 222 o'ring/Fin	20 – 20"	
	0045	0.45 μ m	SF – 226 o'ring/Fin	30 – 30"	
	0100	1.0 μ m		40 – 40"	



TM

Ultimate in Filtration

GFS FILTRATION PTE LTD

No.52, Ubi Ave 3, #05-36 Frontier, Singapore 408867

Tel: (65) 6846 4689 Fax: (65) 6846 4875

Email: enquiry@gfsfilter.com Website: www.gfsfilter.com



UKAS is a member of Registrar of Standards (BSI) Ltd.