SupaPore Halar

High Compatibility Pleated Filter

SupaPore Halar filters are constructed using Halar fluoropolymer media offering a unique combination of mechanical properties and thermal and chemical resistance. These filters are specifically designed to offer excellent compatibility and effective removal of particulates from solvents, solvent based liquids and ozonated water.

SupaPore Halar filters offer greater compatibility than polypropylene media filters at a cost that is typically lower than PTFE membrane cartridges. The advanced pleated meltblown media used in these filters provides both high flow rates and long life. They are also available with nylon 6 cage, core and end-caps to widen the range of applications **SupaPore Halar** filters can be used in.

Industries and Applications

The availability of high purity, particulate free solvents is also important to many industries including manufacturers of Active Pharmaceutical Ingredients (API), fine chemicals and micro-electronics products. Typical applications include:-

- **API / Fine Chemical manufacturing**
  - – Removal of fine particulates from product streams
  - – Clarification of chemicals used for product synthesis
  - – Filtration of solvents used for purification of crystallised compounds
- **Microelectronics industry**
  - – Particle removal from chemicals and solvents used for microchip production
- **Water treatment**

The use of ozone to control bioburden in purified water systems is increasing and ozonated water can damage standard polypropylene cartridges. **SupaPore Halar** cartridges are excellent for this application, exhibiting enhanced compatibility for water dosed with ozone. They are also used as vent filters to protect water tanks from particulate contamination.

Compatibility*1

SupaPore Halar filters offer improved compatibility with a wide range of chemicals and solvents including:-

- Acetone
- Acetonitrile
- Acetic acid (100%)
- DMAC
- DMF
- DMSO
- Ethanol
- Ethyl acetate
- Ethanol
- Hexane
- Hydrochloric Acid
- Methanol
- MIBK
- MTBE
- n Heptane
- Ozonated water
- Sodium Hydroxide
- THF
- Toluene
- Xylene

(*1 Chemical compatibility of filters can be affected by so many process factors (e.g. temperature, exposure time etc). Filters should be pre-tested under users own process conditions using appropriate safety practices in order to confirm compatibility.)

Amazon Filters manufactures a comprehensive range of PED and ATEX compliant filter housings for use with **SupaPore Halar** cartridges. This range includes the industrial **50** and **60 Series** housings and the hygienic **70 Series**. We are also able to offer the **ClearView** housing containing a 'window' to allow on-line visual monitoring of the process. Please consult our Sales Office for further details on the full range.

SupaPore Halar Features And Benefits

- Broad chemical compatibility with a range of solvents and chemicals at an attractive cost
- Available with either polypropylene or nylon hardware
- High flow rates, low pressure drops, long life and low extractables
- Manufactured under strict control with batch number identification, giving full traceability on all components
- Materials USP Class VI Plastics tested and meet US FDA Title 21 requirements
- Full product validation guide available

SupaPore Halar

SUPAPORE HALAR

TECHNICAL DATA

Dimensions

Outside Diameter:	69mm
Typical Surface Area:	0.54 m² (Per 10")
Length:	See ordering guide

Sterilisation and Sanitisation*2

Steam or Autoclave:	121°C for 15 mins (40 cycles)
Hot Water:	90°C for 30 mins (0.2 bar Δp max)

*2 Applies to 16LPG single open end cartridges only. For all steaming and hot water applications, the Glass Filled end cap option must be used.

Maximum Operating Conditions

Temperature:	80°C

Recommended Maximum Differential Pressure:

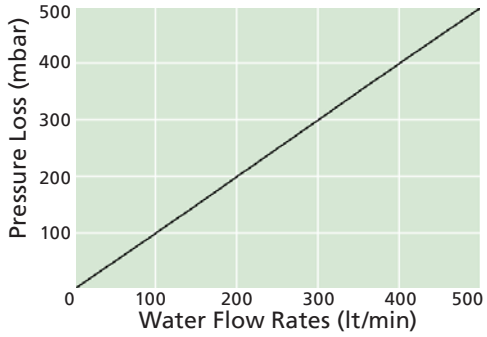
Forward Flow:	4.0 Bar @ 20°C
Reverse Flow	3.5 Bar @ 20°C

Materials of Construction

Filter Media:	Halar (ECTFE)
Cage, Core & End Caps:	P - Polypropylene (PP) or N - Nylon (N)

Product validation guide available on request. All **SUPAPORE HALAR** cartridges are manufactured under strict control with batch number identification, giving full traceability on all components.

Flow Rates (10" Element)



Removal Efficiency

Particulate Size	Beta Ratio (Efficiency)
0.6µm	100 (99%)
0.8µm	400 (99.75%)
1µm	2000 (99.95%)
2µm	5000 (99.98%)
3µm	>5000 (99.98%)
4µm	>5000 (99.98%)
>5µm	>5000 (99.98%)

ORDERING GUIDE

16 ○ ○ G ○○○ - ○○ ○ ○ A ○

MEDIA	CORE/ASSEMBLY	REMOVAL RATING	LENGTH	CONNECTIONS	SEAL	OPTIONS
L - Halar	P - Polypropylene N - Nylon	00P - Solvent Grade	05 - 125mm 09 - 250 20 - 509 30 - 762 40 - 1016	0 - DOE A - Code A B - Code B*3 S - Code S 2 - Code 2 3 - Code 3 6 - Code 6 7 - Code 7 8 - Code 8 9 - Code 9	B - Buna E - EPDM F - FEP/Silicone (SOE Only) G - FEP/Viton S - Silicone T - PTFE (DOE Only) V - Viton	G - Glass filled PP end cap

Example: 16LPG00P-30SEA = Halar media and polypropylene core, General Solvent grade, triple length 30", code S connection with EPDM seal.
*3Code B - to fit Amazon **50 Series** housings only

INDUSTRIES AND APPLICATIONS

Pharmaceuticals	•	API manufacturing
Fine Chemicals	•	Filtration of Acids, Bases and Solvents
Electronics	•	High purity water, Photo resists, Acids, Etch solutions
Water Treatment	•	Ozonated water

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