

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 where SupaPore Halar filters can be used.

Industries and Applications

The availability of high purity, particulate-free solvents is important to many industries including manufacturers of Active Pharmaceutical Ingredients (API), fine chemicals and microelectronics. 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%)
- Diethyl Ether
- DMAC
- DMF
- DMSO
- Ethyl acetate
- Ethanol

- Hexane
- Hydrochloric Acids
- Methanol
- MIBK
- MTBE
- n-Hyphenated
- Ozonated Water
- Sodium Hydroxide
- THF
- Toluene
- Xylene

*¹ Chemical compatibility of filters can be affected by 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.



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

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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SupaPore Halar Technical Data

Dimensions

Outside Diameter: 69mm
Typical Surface Area: 0.54 m² (Per 10")

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 single open end cartridges only. For all steaming and hot water applications, the Reinforced Polypropylene End Cap option must be used.

Maximum Operating Conditions

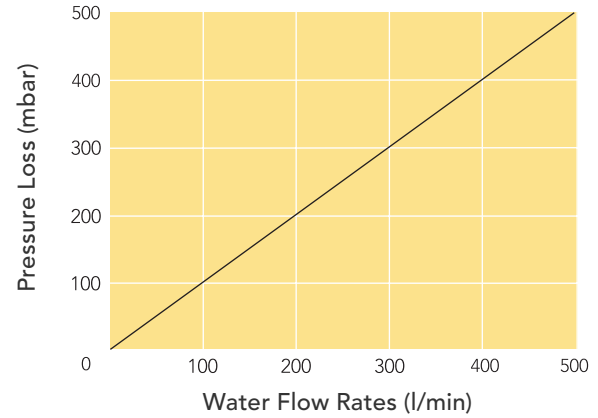
Temperature: 80°C
Recommended Maximum Differential Pressure:
Forward Flow: 4.0 Bar @ 20°C
Reverse Flow: 3.5 Bar @ 20°C
Recommended change-out differential pressure: 2.5 Bar

Materials of Construction

Filter Media: Halar (ECTFE)
Media Support: Polypropylene or Polyester
End Caps: Polypropylene
Cage/Core: Polypropylene

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)



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%)

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