FTECH-PORE LPG

HIGH COMPATIBILITY PLEATED FILTER

Many manufacturing processes such as Active Pharmaceutical Ingredient (API) production rely on filtration to ensure the solvent based product streams are particulate free. The availability of high purity and high quality solvents is also important to many other industries including manufacturers of fine chemicals and micro- electronics products. To help industry meet these challenges Filtertechnik Filters has developed a range of Ftech-Pore LPG filters constructed using Halar ECTFE media.

Halar ECTFE is a fluoro- polymer offering a unique combination of mechanical properties with thermal and chemical resistance. These filters are specifically designed to offer excellent compatibility and effective removal of particulates from solvents and solvent based liquids. The advanced pleated meltblown media used in these filters provides both high flow rates and long life. Ftech-Pore LPG filters offer greater compatibility than polypropylene media filters at a cost that is typically lower than PTFE
membrane cartridges.

Industries and Applications

- 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
  - – Ozonated water and vent filters

Compatibility*1
Ftech-Pore LPG filters offer improved compatibility with a wide range of chemicals and solvents including:-

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

SUPAPORE LPG FEATURES AND BENEFITS

- Broad chemical compatibility with a range of solvents and chemicals at an attractive cost
- Suitable for use at higher temperatures
- High flow rates, low pressure drops and long life
- 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

Technical data

Dimensions

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

Sterilisation and Sanitisation*1

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

*1 Applies to single open end cartridges only. For all steaming and hot water applications, the stainless steel end cap insert or Glass Filled end cap option must be used.

Maximum Operating Conditions

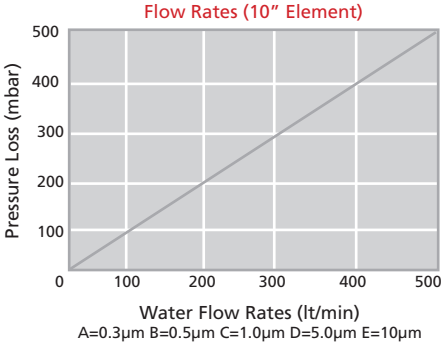
Temperature:	80°C
Recommended Maximum Differential Pressure:	
Forward Flow:	4.0 Bar @ 20°C
Reverse Flow	3.5 Bar @ 20°C

Materials of Construction

Filter Media:	Halar (ECTFE)
Cage, Core & End Caps:	Polypropylene (PP)

Product validation guide available on request. All Ftech-Pore LPG cartridges are manufactured under strict control with batch number identification, giving full traceability on all components.

Flow Rates (10” Element)



A=0.3µm B=0.5µm C=1.0µm D=5.0µm E=10µm

Particulate Size	Beta Ratio (Efficiency)
0.6µm	100 (99%)
0.6µm	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

FT-16 □ □ G □□□ □□ □ □ A □

Media	Core/assembly	Removal rating	Length	Connections	Seal	Options
L - Halar	P - Polypropylene	00P - Solvent Grade	05 - 125mm 09 - 250 20 - 509 30 - 769 40 - 1016	0 - DOE A - Code A B - Code B*2 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) S - Silicone T - PTFE (DOE Only) V - Viton	S - St.St Insert G -Glass filled PP end cap

Example: 16FPW00X-20ASA = Glass Microfibre media with Polypropylene hardware, Grade X, double length 20”, code A connection with silicone seal.

*3 Code B - to fit Filtertechnik 50 Series housings only
*4 Junior Cartridges available in 5”, Code J, Single Open Ended Only

Industries and applications

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

Filtertechnik
Filtration, Purification & Separation Solutions

Filtertechnik Unit 10, Easter Park, Lenton Lane Industrial Estate, Nottingham, NG7 2PX
Freephone in UK: 0800 0087 456
t: +44 (0)115 9003 600 f: +44 (0)115 9705 597
e: sales@filtertechnik.co.uk w: www.filtertechnik.co.uk