

Tekfil™ HV

High Viscosity Filter Cartridge for the Filtration of Gels and Viscous Fluids

Tekfil™ HV meltblown filter cartridges are designed specifically for the filtration of high viscosity fluids, such as paints, inks and resins. The graded density of depth filters is highly suited for the retention of gels and other deformable particles.

The Tekfil™ HV filters are manufactured by controlling the fibre diameters which maintain high tensile strength, high void volume and higher differential pressure than conventional meltblown filters.

The all-polypropylene construction of the filters are free from silicone and binders and ensures zero fibre mitigation during the recommended process conditions.

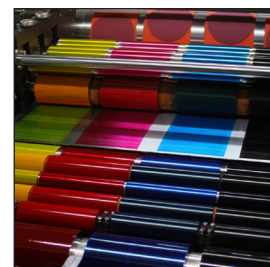
All Tekfil™ HV filters are available with a wide range of thermally welded endcaps.



Applications

Tekfil™ HV cartridges provide absolute and nominal filtration where the retention of deformable particles is critical at cost effective prices. Suitable for the filtration of either viscose inorganic and organic liquids, Tekfil™ cartridges can be used as prefilters or final filters in the following applications:

- **High Viscosity Fluids**
For the retention of deformable and oversize particles.
- **Paints**
For the removal of process and environmental particles, gels and fibres introduced through the incomplete blending of pigments and contaminated raw materials.
- **Inks**
For the removal of gels and polymorphous particles whilst ensuring that pigment concentration and colour is maintained.
- **Coatings**
For the removal of contaminants to guarantee consistency at point-of-use applications.
- **Resins**
For the removal of salts and deformable particles which are formed as a result of process by-products.



- **Tekfil™ HV cartridges**

Extensive research and selection of the latest and most advanced polypropylene meltblown filter media, results in improved performance, leading to extended filter life at a given efficiency.

- **Graded depth media**

The graded structure of the media provides prefiltration of the process fluid prior to the absolute rated final layer. This combination provides economy of use and a smaller process footprint.

- **High degree of chemical compatibility**

Constructed entirely of polypropylene offering broad chemical compatibility.

- **High dirt holding capacity**

Four layer graded density, providing true depth filtration and high dirt holding capacity for a longer service life.

- **Absolute and nominal removal ratings**

Tekfil™ HV cartridges are validated using recognised industry standard test methods.

- **Environmentally friendly**

Tekfil™ HV filters are environmentally friendly, all spent cartridges can be readily incinerated to trace ash.

- **Silicone Free**

Tekfil™ HV filters are manufactured from silicone free materials, therefore ensuring no contamination of the filtered product, which could lead to the rejection of the final product.

Materials of Manufacture

Filter media: Polypropylene
End fittings: Polypropylene

Cartridge Dimensions (Nominal)

Diameter: 63mm (2.5")
Length: 254mm (10"),
508mm (20"),
762mm (30"),
1016mm (40")

Gaskets and O-Rings

Ethylene Propylene, FEP encapsulated, Silicone, Viton®, Nitrile or Polypropylene felt available for non crush-fit end adapters.

Maximum Differential Pressure

Normal flow direction at:
20°C (68°F): 5 bar (73psi)

Recommended Changeout Pressure

2.5 bar (36psi)

Operating Temperature

Maximum continuous: 80°C (176°F)

Extractables

Minimum total extractables.



Porvair Filtration Group Ltd.

Queensway
Stem Lane, New Milton,
Hampshire, BH25 5NN, UK
Tel: +44 (0)1425 612010
Email: info@porvairfiltration.com

Porvair Filtration Group Inc.

301 Business Lane
Ashland, Virginia 23005, USA
Tel: +1 804 550 1600
Email: infoUS@porvairfiltration.com

Porvair Filtration Group

Chengdong Area
Square Industrial Park, North District
Xiaonan Economic Development Zone
Xiaogan, 432000, China
Tel: +86 25 5758 1600
Sales: +86 151 0101 2510
+86 189 3686 6188
Email: infoCN@porvairfiltration.com

Porvair Filtration India PVT. Ltd.

Gangotri Glacier Annex, Kavesar
Opposite Vijay Nagari, Off Ghodbunder Road
Thane (W), 400607, India
Tel: +91 22 25 976464 / +91 22 25 976465
Email: infoIN@porvairfiltration.com

Porvair is a registered trademark of Porvair plc.

Tekfil is a trademark of Porvair plc.

Viton is a registered trademark of DuPont Performance Elastomers L.L.C.

© Copyright 2019 Porvair Filtration Group Ltd. All rights reserved.

Whilst every effort has been made to ensure the accuracy of this document, due to continuous product development, the data contained is subject to constant revision and Porvair Filtration Group Ltd. reserves the right to change, alter or modify its contents.