**Tekfil™ Polypropylene Depth Cartridge Filters**

Tekfil™ is a high flow, graded depth filter with high contaminant capacity for long life. Constructed from FDA approved polypropylene with excellent performance characteristics, it is an economic choice for a wide range of applications.

**Applications**

- Tekfil™ cartridges provide absolute and nominal filtration where the cost of filtration is critical. Samples for the filtration of aqueous and organic liquids. Tekfil™ cartridges can be used as prefilters or final filters in bulk inkjet filtration. Suitable for manufacture with all major ink types:
  - Aqueous
  - UV
  - Solvent
  - Dye
  - Pigment

Inprinta bulk filtration provides a low cost product aimed at the highest end of the digital ink manufacturing industry.

### Features and Benefits

**Tekfil™ 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 and/or nylon.

**Absolute and nominal removal ratings**

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

**Environmentally friendly**

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

**Particle retention rating**

- Inprinta bulk filtration provides a low cost product aimed at the highest end of the digital ink manufacturing industry.

### Specifications

<table>
<thead>
<tr>
<th>Code</th>
<th>Flow Rate (l/min)</th>
<th>Absolute Rating (microns)</th>
<th>Nominal Rating</th>
<th>Nominal Rating</th>
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<tbody>
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</tbody>
</table>

**Materials of manufacture**

- Filter media: Polypropylene/nylon
- End fittings: Polypropylene

**Cartridge dimensions (nominal)**

- Diameter: 40mm (1.5”)
- Length:
  - 254mm (10”)
  - 508mm (20”)
  - 762mm (30”)
  - 1016mm (40”)

**Gaskets and o-rings**

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

**Maximum differential pressure**

- Normal flow direction at 22°C (72°F): 3.5 bar (52psi)
- 60°C (140°F): 1.5 bar (22psi)
- 80°C (176°F): 0.5 bar (7psi)

**Operating temperature**

- Maximum continuous: 80°C (176°F)

**Extractables**

- Minimum total extractables.
Contact us

For further information on our product range or manufacturing services, please contact Inprinta on the details below:

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

Range
Suitable for use in Inprinta filter housings and as direct replacements for existing cartridges. Tekfil™ cartridges can be supplied with end fittings to suit most hardware installations without modification. They are available in lengths of 10, 20, 30 and 40 inches, and in a choice of removal ratings from 1 to 100 micron.

Material conformity and validation
The bio-safety of all materials used in the manufacture of Tekfil™ cartridges is assured by FDA approval to Title 21 CFR 177. Registered to ISO 9001, Inprinta procedures are subject to high standards of quality assurance as demonstrated through its Drug Master File status.

Chemical compatibility
The Tekfil™ materials of construction are compatible with a wide range of chemicals and solvents, however care must be taken to select the appropriate seal material. Advice on chemical compatibility is available. Since operating conditions vary considerably between applications, verification by the end user is recommended.

Filter housings
Please contact an Inprinta representative for further information on our range of filter housings.

Tekfil™ Polypropylene Depth Filters

Inprinta
Queensway, Stem Lane
New Milton, Hampshire
BH25 5NN, UK
T +44 (0)1425 612010
E info@inprinta.com

301 Business Lane
Anseal, Virginia 23005, USA
T +1 804 550 1600
E info@inprinta.com

Changguang Area
Shanghai Industrial Park, North District
Xiaogan Economic Development Zone
Xiaogan, 432000, China
T +86 25 5758 1930
+86 151 3812 2190
+86 186 3986 8788
E info@inprinta.com

Gangji Glacier Avenue, Kavsta
Opposite Vino Nager, Off Ghodbunder Road
Thane (W), 400607, India
T +91 22 25 976464
+91 22 25 976465
E info@inprinta.com

www.inprinta.com

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