3M™ 740 Series filter cartridges are high efficiency, outside to inside flow direction liquid filtration cartridges designed for applications with high contaminant removal requirements.

The 3M 740 Series cartridges are for use in filter housings that accept 6.5" (165 mm) outside diameter, 40" (1016 mm) length filter cartridges with 226 o-ring connections.

The large diameter, pleated depth media cartridge design permits higher flow rates than standard 2.5" diameter filter cartridges resulting in significantly fewer required filter cartridges for a given flow.

3M polypropylene microfiber forms the basis of the filtration media utilized in the 3M 740 Series filter cartridges. 3M’s manufacturing processes allow for tightly controlled specifications resulting in a filter media with consistent and predictable particle retention characteristics. The 3M 740 Series cartridges are offered in micron grades ranging from 1 μm to 70 μm (@ 99.9% Particle Removal Efficiency).

The 3M 740 Series cartridges are offered in two configurations – the “B” and “K” versions. The “B” versions contain the maximum amount of filter media surface area for those applications where the highest contaminant holding capacity and/or throughput is desired. The “K” versions contain an optimized amount of filter media surface area (60% - 70% of “B” versions) for those applications where a lower unit cost filter design is beneficial. For both designs, the microfiber media is pleated in a radial design (a 3M Innovation) which optimizes the usable surface area of the filter cartridges. The 3M 740 Series cartridges utilize polypropylene end caps, outer sleeves and cores to protect the pleat structure integrity and provide a robust filter construction. A double o-ring seal design is incorporated to reduce the risk of fluid bypass.

### Features & Benefits

#### Higher Flow Capability per Cartridge (vs. conventional 2.5" diameter cartridges)
- Fewer cartridges required, resulting in:
  - Reduced cartridge handling
  - Less individual cartridge seal points reducing chance of fluid bypass

#### Radial Pleat Design
- High contaminant capacity

#### Use of 3M Microfiber Filtration Medias
- Consistent and predictable filtration performance
- High particle removal efficiencies throughout filter life

#### Easy to Use
- No special tools or hardware required for filter change-out

#### All Polypropylene Filter Construction
- Broad chemical compatibility

#### FDA Compliant
- Compatible in applications requiring direct food contact in food and beverage processing per 21 CFR
3M™ 740 Series Filter Cartridge Specifications

**Construction**
- Filter Media, Center Core, End Caps, Outer Sleeve: Polypropylene
- Sealing O-ring: Nitrile
- O-ring Size: 226

**Operating Conditions**
- Maximum Flow Rate: 60 gpm (14 m³/hr) – (1 µm & 2 µm versions) 80 gpm (18 m³/hr) – (all other versions)
- Maximum Operating Temperature: 160°F (71°C)
- Maximum Forward Differential Pressure: 50 psid @ 68°F (3.4 bar @ 20°C)
- Recommended Change-out Differential Pressure: 35 psid @ 68°F (2.4 bar @ 20°C)

**Cartridge Dimensions**
- Inside Diameter (nominal): 1.5” (38.1 mm)
- Outside Diameter (nominal): 6.5” (165 mm)
- Length (nominal): 40” (1016 mm)

**Regulatory**
- All component materials of construction are listed for food contact per FDA 21 CFR Parts 170-199

---

**3M™ 740 Series Filter Cartridge Ordering Guide**

<table>
<thead>
<tr>
<th>Model</th>
<th>Filter Construction</th>
<th>Length</th>
<th>Material (Media/Plastic Components)</th>
<th>Micron Grade (@ 99.9% PRE)</th>
<th>Gasket Material</th>
<th>Packaging</th>
</tr>
</thead>
<tbody>
<tr>
<td>740 – 740</td>
<td>740</td>
<td>40 – 40” Nominal</td>
<td>PP – Polypropylene</td>
<td>001 – 1µm 002 – 2µm 005 – 5µm 010 – 10µm 015 – 15µm 025 – 25µm 040 – 40µm 070 – 70µm</td>
<td>D – Nitrile</td>
<td>1 – 1 per Case</td>
</tr>
</tbody>
</table>

---

**Important Notice**

The information described in this literature is accurate to the best of our knowledge. A variety of factors, however, can affect the performance of the Product(s) in a particular application, some of which are uniquely within your knowledge and control. INFORMATION IS SUPPLIED UPON THE CONDITION THAT THE PERSONS RECEIVING THE SAME WILL MAKE THEIR OWN DETERMINATION AS TO ITS SUITABILITY FOR THEIR USE. IN NO EVENT WILL 3M PURIFICATION INC. BE RESPONSIBLE FOR DAMAGES OF ANY NATURE WHATSOEVER RESULTING FROM THE USE OF OR RELIANCE UPON INFORMATION.

It is your responsibility to determine if additional testing or information is required and if this product is fit for a particular purpose and suitable in your specific application.

3M PURIFICATION INC. MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE HEREOFUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH INFORMATION REFERS.

**Limitation of Liability**

3M Purification Inc. will not be liable for any loss or damage arising from the use of the Product(s), whether direct, indirect, special, incidental, or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you.

---

**3M Purification Inc.**

---

**Lenntech**

info@lenntech.com Tel. +31-152-610-900
www.lenntech.com Fax. +31-152-616-289