

3M™ 740 Series Filter Cartridges

High filtration performance

The 740 Series of products offers high loading capacity because of its high filtration area. Save more time with fewer change-outs and cartridges. The 740 series double O-ring reduces the risk of improper seals and bypass. You can achieve high efficiency with economical disposal costs. Keep things flowing in the right direction with the 740 series filter cartridges that fit your operation.

Radial pleated filter cartridges designed for particulate reduction

740 series filter cartridges are high efficiency, outside-to-inside flow liquid filtration cartridges designed for applications with high contaminant removal requirements. Solventum polypropylene microfiber technology forms the basis of the filtration media utilized in 740 series filter cartridges. Solventum's manufacturing processes allow for tightly-controlled specifications and result in a filter media with consistent and predictable particle retention characteristics.

The microfiber media is pleated in a radial design which optimizes the surface area of the filter cartridges and results in low flux, high dirt loading capacity, and long filter life. B40 and B30 configurations maximize media surface area, while K40 configurations contain a more open pleat structure.

740 series filter cartridges are offered in multiple micron ratings from 1 µm to 70 µm. They are designed for use in housings that accept 6.5" (16.5 cm) outside diameter cartridges with 226 O-ring connections and are available in 40" (101 cm) and 30" (76 cm) lengths.



Features & benefits

Filtration performance in a large cartridge format

- High contaminant capacity of Solventum microfiber filtration media
- Consistent and predictable filtration performance
- High particle removal efficiencies throughout filter life

Easy to use

- No special tools or hardware needed for filter change-out
- Fewer cartridges required, which results in reduced handling and fewer seals
- Double O-rings provide reduced risk of bypass vs traditional double open ended filter cartridges

Broad chemical compatibility

- Polypropylene filter construction

Suitable for food contact applications

- Certain 740 series products are compliant with US FDA 21 CFR, EU food contact regulation (EC) 1935/2004 or other food contact regulations. For details related to limitations or restrictions please contact your Solventum representative for detailed declaration of compliance information for food contact applications.

Applications

- Process waters
- Food & beverage
- Bottled water
- Machine coolants
- Chemicals
- Refining (amine, final product)
- Ground/reclaimed/waste waters
- Well injection & produced waters

3M™ 700 Series Filter Cartridges specifications

	740B40 Series Filter Cartridge	740B30 Series Filter Cartridge	740K40 Series Filter Cartridge
Construction			
Filter media, center core, end caps, outer sleeve	Polypropylene	Polypropylene	Polypropylene
Sealing O-ring	Nitrile ¹	Nitrile	Nitrile
O-ring size	226	226	226
Operating conditions			
Maximum flow rate	60 gpm (14 m ³ /hr) – (1 µm & 2 µm) 80 gpm (18 m ³ /hr) – (all other microns)	50 gpm (11 m ³ /hr)	60 gpm (14 m ³ /hr) – (1 µm & 2 µm) 80 gpm (18 m ³ /hr) – (all other microns)
Maximum operating temperature	160° F (71° C)	160°F (71°C)	160°F (71°C)
Maximum forward differential pressure	50 psid @ 68°F (3.4 bar @ 20°C)	50 psid @ 68°F (3.4 bar @ 20°C)	50 psid @ 68°F (3.4 bar @ 20°C)
Recommended change-out differential pressure	35 psid @ 68°F (2.4 bar @ 20°C)	35 psid @ 68°F (2.4 bar @ 20°C)	35 psid @ 68°F (2.4 bar @ 20°C)
Cartridge dimensions			
Inside diameter (nominal)	1.5" (3.8 cm)	1.5" (3.8 cm)	1.5" (3.8 cm)
Outside diameter (nominal)	6.5" (16.5 cm)	6.5" (16.5 cm)	6.5" (16.5 cm)
Length (nominal)	40" (101 cm)	30" (76 cm)	40" (101 cm)

¹ Not for use in dairy and fatty food contact applications

3M™ 740 Series Filter Cartridges ordering guide

Model	Filter construction	Length (nominal)	Material (media/ plastic components)	Micron grade (at 99.9% PRE)	Gasket material	Packaging per case
740 – 740 style	B – Maximum filter area K – Optimised filter area	40 – 40" 30 – 30"	PP – Polypropylene	001 – 1 µm	D – Nitrile	1 – 1
				002 – 2 µm		
				005 – 5 µm		
				010 – 10 µm		
				015 – 15 µm		
				025 – 25 µm		
				040 – 40 µm		
				070 – 70 µm		
				N50 – 5 µm (nominal)		



3M™ 740 Series Filter Cartridges are tested and certified by WQA against NSF/ANSI/CAN Standard 61 for material requirements only (For 1 µm, 2 µm, 5 µm, 10 µm and 15 µm versions using either EPDM or nitrile O-rings).

For more information, contact your Solventum sales representative.

Intended Use: 3M™ 740 Series Liquid Filter Bags are intended for use in industrial filtration applications of aqueous fluids in accordance with the applicable product instructions and specifications. 740 series filter bags are also intended for use with non-aqueous fluids where materials of construction are compatible. Certain 740 series liquid filter bags are also intended for use in food and beverage (F&B) applications. For details related to the specific use conditions or limitations for food contact applications please contact your Solventum representative for more information. Since there are many factors that can affect a product's use, the customer and user remain responsible for determining whether the Solventum product is suitable and appropriate for the user's specific application, including user conducting an appropriate risk assessment and evaluating the Solventum product in user's application.

Restrictions on Use: Solventum advises against the use of these Solventum products in any application other than the stated intended use(s), since other applications have not been evaluated by Solventum and may result in an unsafe or unintended condition. Do not use in any manner whereby the Solventum product, or any extractable or leachable from the Solventum product, may become part of or remains in a medical device, drug, cosmetic, supplement, infant formula; or in applications involving life-sustaining medical applications or prolonged contact with internal bodily fluids or tissues.

Technical Information: The technical information, guidance, and other statements contained in this document or otherwise provided by Solventum are based upon records, tests, or experience that Solventum believes to be reliable, but the accuracy, completeness, and representative nature of such information is not guaranteed. Such information is intended for people with knowledge and technical skills sufficient to assess and apply their own informed judgment to the information. No license under any Solventum or third party intellectual property rights is granted or implied with this information.

Product Use: Many factors beyond Solventum's control and uniquely within user's knowledge and control can affect the use and performance of a Solventum product in a particular application. Given the variety of factors that can affect the use and performance of a Solventum product, user is solely responsible for evaluating the Solventum product and determining whether it is fit for a particular purpose and suitable for user's method of application.

Warranty, Limited Remedy, and Disclaimer: Unless an additional warranty is specifically stated on the applicable Solventum product packaging or product literature, Solventum warrants that each Solventum product meets the applicable Solventum product specification at the time Solventum ships the product. SOLVENTUM MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY OR CONDITION ARISING OUT OF A COURSE OF DEALING, CUSTOM OR USAGE OF TRADE. If the 3M product does not conform to this warranty, then the sole and exclusive remedy is, at Solventum's option, replacement of the Solventum product or refund of the purchase price.

Limitation of Liability: Except where prohibited by law, Solventum will not be liable for any loss or damage arising from the Solventum product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability, limited to, warranty, contract, negligence, or strict liability.



Authorised Distributor in Italy
www.vason.com

3M industrial process filtration is now part of Solventum



Solventum Purification and Filtration

Charnwood Campus
10 Bakewell Road, Loughborough,
Leicestershire, LE11 5RB
United Kingdom
go.solventum.com/filtration-uk

Solventum Purification and Filtration

2 Cumberland place
Fenian Street,
Dublin 2, D02 H0V5
Ireland
go.solventum.com/filtration-uk

© Solventum 2025. Solventum and the S logo are trademarks of Solventum or its affiliates. 3M is trademark of 3M.