

Filtration optimization.

Achieve filtration performance with 3M™ 700 Series Filter Cartridges.

The 700 Series of products offers high loading capacity because of its high filtration area. Save more time with fewer change-outs and cartridges. Fewer seals and double O-rings provide increased confidence with reduced risk of improper seals and bypass. You can achieve high efficiency with economical disposal costs.

Keep things flowing in the right direction with the 3M™ 700 Series Filter Cartridges that fit your operation.



A photograph of an industrial facility, likely a water treatment plant, featuring a complex network of large, silver-colored pipes and valves. Several large, red-handled valves are prominent in the foreground and middle ground. The scene is brightly lit, and the overall color palette is dominated by the metallic silver of the pipes and the vibrant red of the valve handles. The background shows more industrial structures and a clear sky.

Radial pleated filter cartridges designed for particulate reduction.

3M™ 700 Series Filter Cartridges are high efficiency, outside-to-inside flow liquid filtration cartridges designed for applications with high contaminant removal requirements. 3M polypropylene microfiber technology forms the basis of the filtration media utilized in 3M 700 Series Filter Cartridges. 3M'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 for applications where process contaminants cake on filtration media.

3M™ 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 cm) outside diameter cartridges with 226 O-ring connections and are available in 40" (101 cm) and 30" (76 cm) lengths.

3M™ 720 Series Filter Cartridges are offered in multiple micron ratings from 2 μm to 20 μm . They are designed for use in housings that accept 7" (18 cm) outside diameter, 28" (71 cm) length cartridges with 226 O-ring connections.



3M™ 740 Series Filter Cartridges are tested and certified by WQA against NSF/ANSI 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). Certified O-rings are also limited to EPDM & Nitrile that are WQA certified.

3M™ 700 Series Filter Cartridges Specifications

	740B40 Series Filter Cartridge	740B30 Series Filter Cartridge	740K40 Series Filter Cartridge	720 Series Filter Cartridge*
Construction				
Filter Media, Center Core, End Caps, Outer Sleeve	Polypropylene			
Sealing O-ring	Nitrile, Silicone, EPDM, Fluorocarbon	Nitrile, Silicone	Nitrile	
O-ring Size	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)	50 gpm (11 m ³ /hr)
Maximum Operating Temperature	160° F (71° C)	160° F (71° C)	160° F (71° C)	140° F (60° C)
Maximum Forward Differential Pressure	50 psid @ 68° F (3.4 bar @ 20° C)			35 psid @ 68° F (2.4 bar @ 20° C)
Recommended Change-out Differential Pressure	35 psid @ 68° F (2.4 bar @ 20° C)			
Cartridge Dimensions				
Inside Diameter (nominal)	1.5" (3.8 cm)			
Outside Diameter (nominal)	6.5" (16.5 cm)			7" (18 cm)
Length (nominal)	40" (101 cm)	30" (76 cm)	40" (101 cm)	28" (71 cm)
Regulatory				
All component materials of construction are listed for food contact per FDA 21 CFR Parts 170-199.				

*Not evaluated by WQA.

3M™ 700 Series Filter Cartridge Ordering Guide

Part Number	3M ID	Global ID	Model	Filter Type	Length (nominal)	Material	Micron Grade at 99.9% PRE	O-ring Material	Item per Case
740B30PP001A1	70020329440	7010409947	740	B	30	PP-Polypropylene	001-1 µm	A-Silicone	1
740B30PP001D1	70020310424	7100018322	740	B	30	PP-Polypropylene	001-1 µm	D-Nitrile	1
740B30PP002D1	70020310432	7100018065	740	B	30	PP-Polypropylene	002-2 µm	D-Nitrile	1
740B30PP005D1	70020310440	7100018066	740	B	30	PP-Polypropylene	005-5 µm	D-Nitrile	1
740B30PPN05D1	7100042909	7100042909	740	B	30	PP-Polypropylene	005-5 µm*	D-Nitrile	1
740B30PP010D1	70020310457	7100018323	740	B	30	PP-Polypropylene	010-10 µm	D-Nitrile	1
740B30PP015D1	70020310465	7100042716	740	B	30	PP-Polypropylene	015-15 µm	D-Nitrile	1
740B30PP025D1	70020310473	7100018556	740	B	30	PP-Polypropylene	025-25 µm	D-Nitrile	1
740B30PP040D1	70020310481	7100041868	740	B	30	PP-Polypropylene	040-40 µm	D-Nitrile	1
740B30PP070D1	70020310499	7100018557	740	B	30	PP-Polypropylene	070-70 µm	D-Nitrile	1
740B40PP001D1	70020310515	7100018177	740	B	40	PP-Polypropylene	001-1 µm	D-Nitrile	1
740B40PP002C1	70020327691	7010340546	740	B	40	PP-Polypropylene	002-2 µm	C-EPDM	1
740B40PP002D1	70020310523	7100018178	740	B	40	PP-Polypropylene	002-2 µm	D-Nitrile	1
740B40PP005B1	70020309764	7100042908	740	B	40	PP-Polypropylene	005-5 µm	B-Fluorocarbon	1
740B40PP005D1	70020310531	7100018183	740	B	40	PP-Polypropylene	005-5 µm	D-Nitrile	1
740B40PPN05D1	70020283407	7000144866	740	B	40	PP-Polypropylene	005-5 µm*	D-Nitrile	1
740B40PP010B1	70020309772	7010339044	740	B	40	PP-Polypropylene	010-10 µm	B-Fluorocarbon	1
740B40PP010D1	70020310549	7100018184	740	B	40	PP-Polypropylene	010-10 µm	D-Nitrile	1
740B40PP015D1	70020310564	7100017829	740	B	40	PP-Polypropylene	015-15 µm	D-Nitrile	1
740B40PP025B1	70020346154	7100180196	740	B	40	PP-Polypropylene	025-25 µm	B-Fluorocarbon	1
740B40PP025D1	70020310572	7100018248	740	B	40	PP-Polypropylene	025-25 µm	D-Nitrile	1
740B40PP040B1	70020309798	7100063832	740	B	40	PP-Polypropylene	040-40 µm	B-Fluorocarbon	1
740B40PP040D1	70020310606	7100018249	740	B	40	PP-Polypropylene	040-40 µm	D-Nitrile	1
740B40PP070D1	70020310622	7100018339	740	B	40	PP-Polypropylene	070-70 µm	D-Nitrile	1
740K40PP002D1	70020310671	7100018424	740	K	40	PP-Polypropylene	002-2 µm	D-Nitrile	1
740K40PP005C1	70020310689	7100018853	740	K	40	PP-Polypropylene	005-5 µm	C-EPDM	1
740K40PP005D1	70020310697	7100018320	740	K	40	PP-Polypropylene	005-5 µm	D-Nitrile	1
740K40PP010D1	70020310705	7100018854	740	K	40	PP-Polypropylene	010-10 µm	D-Nitrile	1
740K40PP015D1	70020310713	7100018550	740	K	40	PP-Polypropylene	015-15 µm	D-Nitrile	1
740K40PP025D1	70020310721	7100017739	740	K	40	PP-Polypropylene	025-25 µm	D-Nitrile	1
740K40PP040D1	70020310739	7100030026	740	K	40	PP-Polypropylene	040-40 µm	D-Nitrile	1
740K40PP070D1	70020310747	7100018321	740	K	40	PP-Polypropylene	070-70 µm	D-Nitrile	1
70-0702-2611-6	70070226116	7000051830	720	723A	28	PP-Polypropylene	002-2 µm	D-Nitrile	1
70-0702-2613-2	70070226132	7010339442	720	725A	28	PP-Polypropylene	010-10 µm	D-Nitrile	1
70-0702-2614-0	70070226140	7010382196	720	726A	28	PP-Polypropylene	020-20 µm	D-Nitrile	1

*Nominal 5 µm rating, not absolute



Applications

- ▶ Process Waters
- ▶ Food & Beverage
- ▶ Bottled Water
- ▶ Machine Coolants
- ▶ Chemicals
- ▶ Refining (Amine, Final Product)
- ▶ Ground/Reclaimed/Waste Waters
- ▶ Well Injection & Produced Waters

Features & Benefits:

Filtration Performance in a Large Cartridge Format

- ▶ High contaminant capacity of 3M 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
- ▶ Fewer seals and double O-rings provide reduced risk of improper seals and bypass

Broad Chemical Compatibility

- ▶ Polypropylene filter construction

Suitable for Food Contact Applications

- ▶ Material of construction meets FDA requirements for food contact use as detailed in Code of Federal Regulations 21 CFR paragraphs 170-199

Product Selection and Use:

Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. As a result, customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customer's application, including conducting a workplace hazard assessment and reviewing all applicable regulations and standards (e.g., OSHA, ANSI, etc.). Failure to properly evaluate, select, and use a 3M product and appropriate safety products, or to meet all applicable safety regulations, may result in injury, sickness, death, and/or harm to property.

Warranty, Limited Remedy, and Disclaimer:

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Limitation of Liability

Except for the limited remedy stated above, and except to the extent prohibited by law, 3M will not be liable for any loss or damage arising from or related to the 3M product, whether direct, indirect, special, incidental, or consequential (including, but not limited to, lost profits or business opportunity), regardless of the legal or equitable theory asserted, including, but not limited to, warranty, contract, negligence, or strict liability.



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