Industrial filtration

Achieve filtration optimization with 700 series filter cartridges

The Thermo Scientific™ 700 Series Filter Cartridges offer 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 700 series filter cartridges that fit your operation.



Figure 1. Thermo Scientific™ 700 Series Filter Cartridge with microfiber filtration media

Radial pleated filter cartridges designed for particulate reduction

700 series filter cartridges are high efficiency, outside-to-inside flow liquid filtration cartridges designed for applications with high contaminant removal requirements. Polypropylene microfiber technology forms the basis of the filtration media utilized in 700 Series filter cartridges. 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.

Thermo Scientific™ 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 in (165 mm) outside diameter cartridges with 226 O-ring connections and are available in 40 in (1,016 mm) and 30 in (762 mm) lengths.

Thermo Scientific™ 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 in (178 mm) outside diameter, 28 in (711 mm) length cartridges with 226 O-ring connections.

Applications

- Refining (amine, final product)
- Process waters
- Machine coolants
- Chemicals
- Ground/reclaimed/waste waters
- Well injection and produced waters



Features and benefits

Filtration performance in a large cartridge format

- High contaminant capacity of 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

Specifications

Table 1. Thermo Scientific™ 700 Series Filter Cartridge specifications

	Model			
	740B40	740B30	740K40	720
Construction				
Filter media, center core, end caps, outer sleeve	Polypropylene			
Sealing O-ring	Nitrile, EPDM, fluorocarbon	Nitrile, silicone	Nitrile	Nitrile
O-ring size	226			
Operating conditions				
Maximum flow rate	1 µm and 2 µm: 60 gpm (14 m^3/hr) All other µm grades: 80 gpm (18 m^3/hr)	50 gpm (11 m^3/hr)	1 µm and 2 µm: 60 gpm (14 m^3/hr) All other µm grades: 80 gpm (18 m^3/hr)	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 in (38 mm)			
Outside diameter (nominal)	6.5 in (165 mm)			7 in (178 mm)
Length (nominal)	40 in (1,016 mm)	30 in (762 mm)	40 in (1,016 mm)	28 in (711 mm)

Certain 700 series filter cartridge products are compliant with US FDA 21 CFR, EU Food Contact Regulation (EC) 1935/2004, EU Regulation 10/2011 and other food contact regulations. Contact your Thermo Fisher Scientific Inc. representative for detailed declaration of compliance information for food contact applications.

Certain 740 series filter cartridges have been tested and certified by WQA against NSF/ANSI/CAN 61. Contact your Thermo Fisher representative for additional information. For full product listing visit www.wqa.org.

Table 2. Thermo Scientific™ 700 Series Filter Cartridge ordering guide

Part Number	ID	Global ID	Model	Filter type	Length (nominal)	Material	Micron grade at 99.9% PRE	O-ring material**	Item/ 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

** Nitrile and EPDM not for use in dairy and fatty food contact applications. EPDM is not for use in EU Food Contact Applications

Intended Use: 700 series filter cartridges are intended for use in industrial, chemical, electronics and food and beverage filtration applications of aqueous and non-aqueous fluids in accordance with the product instructions, specifications and where materials of construction are compatible.

Certain 700 series filter cartridges are compliant for use in Food and Beverage applications. For specific details regarding use or limitations for food contact applications please contact your Thermo Fisher Scientific Inc. 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 Thermo Scientific product is suitable and appropriate for the user's specific application, including user risk assessments and evaluation of the Thermo Scientific product in the user's application.

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