



## Double-Open-End Liquid Filter Cartridges

**A Bonded Gradient-Density Cartridges.** Ideal for removing a broad range of deformable and non-deformable particles. Rigid designs ideal for filtering high-solids, higher-viscosity fluids that require higher differential pressures. Polypropylene fiber medium is thermally bonded to a rigid core for added durability. Fibers are resistant to chemical and bacterial attack. Cartridges impart no taste, odor or color; suitable to 175°F (79°C).

Catalog number	µm rating, nominal	Flow rate <sup>†</sup>	Length	Price
K-01512-00	1	2 GPM at <2 psid	10"	
K-01512-08	5			
K-01512-18	10			
K-01512-28	25			
K-01512-38	50			
K-01512-02	1	5 GPM at <2 psid	20"	
K-01512-12	5			
K-01512-22	10			
K-01512-32	25			
K-01512-42	50			

**B String-Wound Gradient-Density Cartridges.** Ideal for removing a broad range of deformable and non-deformable particles such as sand, silt, sludge, rust, and scale. String-wind pattern has lower pressure drop for higher flow. Polypropylene string is resistant to chemical and bacterial attack; suitable to 150°F (66°C).

Catalog number	µm rating, nominal	Flow rate <sup>†</sup>	Length	Price
K-01513-00	5	10 GPM at <1 psid	10"	
K-01513-02	30			
K-01513-04	50			

**C Spun Gradient-Density Cartridges.** Ideal for removing a broad range of deformable and non-deformable particles such as sand, silt, sludge, rust, and scale. Polypropylene construction is resistant to chemical and bacterial attack. One-micron and five-micron cartridges are certified to NSF Standard 42 for materials and impart no taste, odor, or color. Suitable to 145°F (63°C).

Catalog number	µm rating, nominal	Flow rate <sup>†</sup>	Length	Price
K-01509-14	1	5 GPM at 0.6 psid	10"	
K-01509-15	5	5 GPM at 0.2 psid		
K-01509-35	25	5 GPM at 0.2 psid		
K-01509-37	1	10 GPM at 0.6 psid	20"	
K-01509-40	5	10 GPM at 0.6 psid		
K-01509-41	25	10 GPM at 0.2 psid		

**D High-Efficiency Pleated Filter Cartridges.** The pleated polypropylene (PP) design offers flow rates and dirt-loading capacities higher than spun or wound depth cartridges. This filter is biologically safe and designed to meet FDA requirements for regulated industries such as food, pharma, and semicon. All-PP construction provides broad chemical compatibility. The gradient density microfiber media provides removal of a broader range of particle sizes than typical pleated filters. Suitable to 122°F (50°C).

Catalog number	µm rating, nominal	Flow rate <sup>†</sup>	Length	Price
K-29830-00	0.2	2 GPM at 1 psid	10"	
K-29830-01		2 GPM at <1 psid	20"	

**E Extra-Strength Pleated Cellulose Cartridges.** This cellulose cartridge is blended with polyester for better wet strength and yet has a lower cost than non-cellulose designs. The polyester material allows more pleats to improve flow and dirt loading. Suitable to 165°F (74°C).

Catalog number	µm rating, nominal	Flow rate <sup>†</sup>	Length	Price
K-01509-05	1	15 GPM at <1 psid	10"	
K-01509-06	5			
K-01509-07	10			

**F Filter Cartridges for Ultrapure Applications.** These cartridges are autoclavable to 250°F (121°C) and in-line sterilizable to 257°F (125°C) for up to 30-minute cycles. They are tolerant to an accumulated exposure of 10 hours. The filters may also be sanitized with compatible chemical agents. All cartridges are suitable to 180°F (82°C) at 10 psid.

The cartridges comply with U.S. CFR Title 21 guidelines for repeated food contact, comply with USP Class VI. 121°C Plastics guidelines, and pass the MEM Elution Cytotoxicity Test. Aqueous extracts contain less than 0.25 EU/mL and typically exhibit low levels of non-volatile residues.

**Multi-Layer Nylon Cartridges.** These consist of two pleated nylon membranes with the top acting as a prefilter to increase cartridge life and efficiency.

**Glass Microfiber Cartridges.** Made of resin-bonded borosilicate glass microfibers that do not leach flavor-altering substances. Meet NSF Standard 53 for the reduction of cysts. Ideal as prefilters to protect membrane filter/RO systems.

**Polypropylene (PP) Cartridges.** Thermally bonded high-purity PP fiber. Economical for a chemically inert media with high dirt-loading capacity. Also suitable for air/gas filtration. All materials FDA-acceptable. Hydrophobic; prewet before liquid filtration.\*

**Pleated PTFE Cartridges.** Clean room-constructed using thermal welding instead of adhesives or additives. Ideal for the more aggressive liquid or air/gas filtration applications. Hydrophobic; prewet before liquid filtration.\*

**Semiconductor Cartridges.** Single-layer PES membrane over PP core. Each is flushed with high-purity water to leach less than 5 ppb TOC and less than 5 ppb trace metals. Ideal for any high-purity chemical or DI water application.

Catalog number	Cartridge type	µm rating <sup>†</sup>	Length	Price
K-06479-16	Serial nylon	0.2	10"	
K-06479-20		0.45		
K-06479-24		3.0		
K-06479-32	Polypropylene	1.0		
K-06479-36		3.0		
K-06479-40		5		
K-06479-44	Polypropylene	10		
K-06479-48		0.1		
K-06479-52	PTFE	0.2		
K-06479-60		Semiconductor		