Electron-Fine Series Filter Cartridges

Product Introduction

Electron-Fine series filter cartridges ultilize continuous fiber matrix to prevent media migration and ensure consistent filtration performance. Electron-Fine series filter elements are done with well surface treatment to eliminate any possibilities of fiber release. They are made with proprietary center core to enhance mechenical strength of cartridge. In addition, Electron-Fine series cartridges are thermal bonded with foam PE gaskets for greater sealing, so they are free of surfactants, binders and adhesives to interfere with product quality or cause foaming.

- All materials meet FDA requirements for food and beverage contact
- Manufactured under a certified ISO 9001 quality system

Product Specifications

Materials of Construction

- Filter Media: Depth Spun Polypropylene
- Center Core: Polypropylene
- End Caps(DOE): Polyethylene Foam
- End Caps(SOE): Polypropylene
- O-rings: Silicone, Buna-N, EPDM, Viton

Dimensions

- Outside Diameter: 2.5'' (63mm)
- Inside Diameter: 1.1'' (28mm)
- Lengths: 10'', 20'', 30'', 40''

Performance Specifications

Retention Ratings

0.5, 1, 3, 5, 10, 30, 50, 75 µm

Operating Conditions

- Maximum Operating Differential Pressure:
  50 psid (3.45 bar) @ ambient
  25 psid (1.72 bar) @ 140°F (70°C)
- Maximum Operating Temperature: 180°F (82°C)
- Recommended Change Out Differential Pressure:
  35 psid (2.4 bar)

FDA Listed Materials

Manufactured from materials which are FDA listed for food contact applications in Title 21 of the U.S. Code of Federal Regulations.

Purity

All Electron-Fine series filter cartridges are free of surfactants, anti-static agents, binders and adhesives.

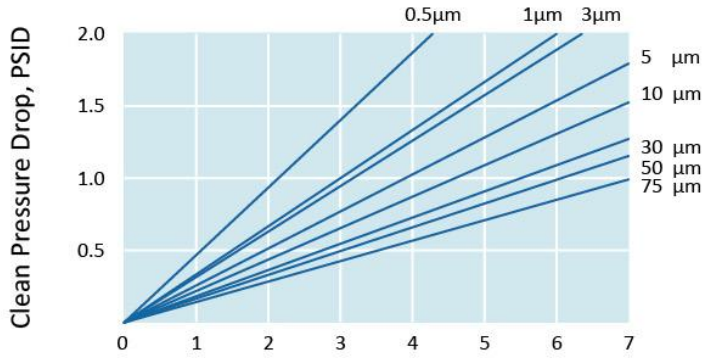
Toxicity

All cartridge components meet USP-XXIII, Class V Criteria.

Applications

E-Chemical Industry	Paint, Ink, Magnetic Paint, Dry Film, Solvent, Plating Chemical, Adhesive, Resin, Photographic Chemical, Machine Coolant, etc.
Food and Beverage Industry	Wine, Potable Water, Beer, Soft Drink, Brewery, Sugar Liquid, Edible Oils, Mouthwash, Lotion, etc.
Electronics Industry	LCD, Chemical Liquid, Plating Liquid, Pre-Filtration for RO/UF, UPW, Resin Trap, etc.

Liquid Flow Rate vs. Initial Differential Pressure



Flow Rate, GPM, Water@AMB.

Flow rate is per 10" cartridge. For liquids other than water, multiply the pressure drop by the fluid viscosity in centipoises

Ordering Information

ECO	5-	10	P-	3	E
Product Name	Retention Rating	Cartridge Length	Core Material	End Configuration	O-ring Material
ECO	0.5, 1, 3, 5, 10, 30, 50, 75 µm	10" 20" 30" 40"	P=PP	No Symbol=DOE Code 3=222 / Flat Code 8=222 / Fin Code 7=226 / Fin, Bayonet	N=Buna-N E=EPDM V=Viton S=Silicone