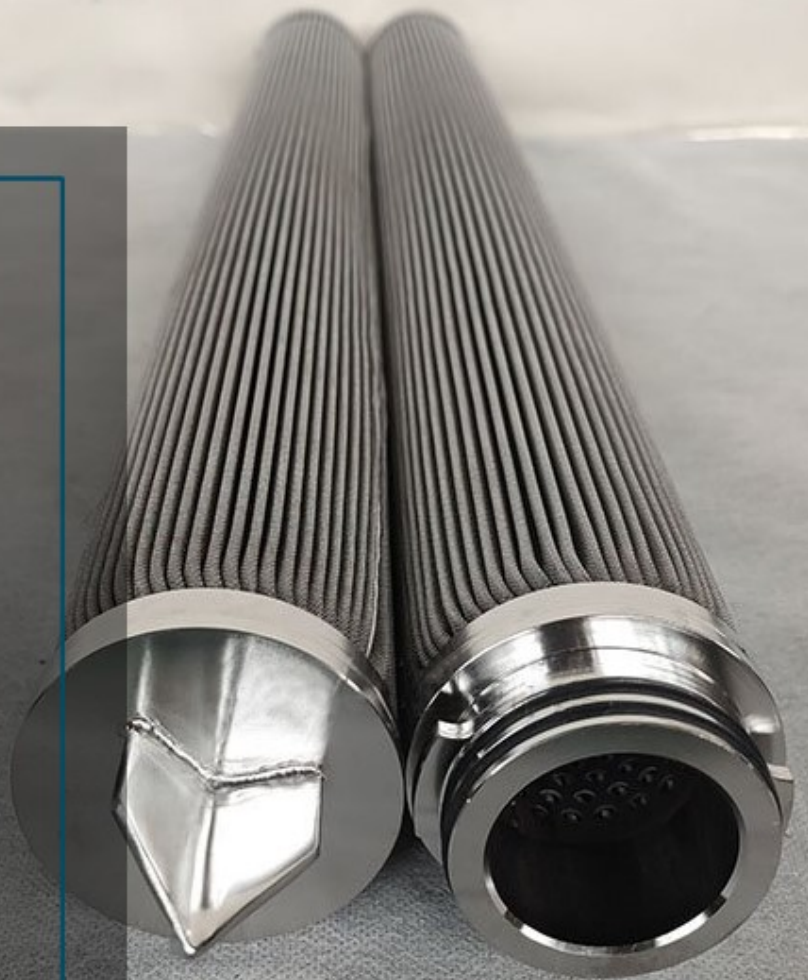




FILTALLOY TECHNOLOGY

POLYMER FILTER ELEMENT





ABOUT US

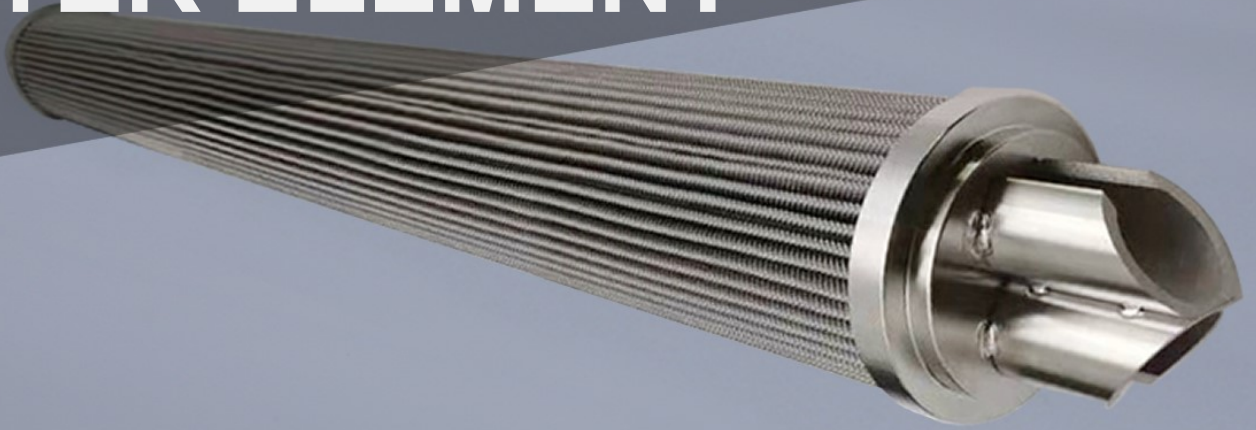
Fitalloy Technology Limited

Fitalloy is an advanced metal filter elements manufacturer & supplier, with more than 20 years of experience. We have introduced the state of art machines and employed experienced technicians to supply high-performance, innovative materials, and solutions for applications in filtration and separation. Our products include:

- | Sintered Mesh Filter
- | Sintered Plate Filter
- | Pleated Metal Filter
- | Sintered Fiber Felt
- | Polymer Filter Elements
- | Polymer Leaf Disc
- | Polymer Extruder Screen
- | Sintered Powder Filter
- | Asymmetric Sintered Metal Filter
- | Hot Gas Filtration Elements
- | Filter Leaf
- | SPL Filter

Our products are widely used in numerous industries including aerospace, oil and gas, petrochemical, water, mine, polymer, food & beverage, automotive, and many other filtration and separation industries. With so many applications, we have built the R&D, design, machining, sales, and quality control departments. With the design and tailored solutions, we then translate them into high-level products. And our team has been learning about the forefront of filtration technology from industrial leading companies. Here customers could get high-quality products at an economic price!

POLYMER FILTER ELEMENT



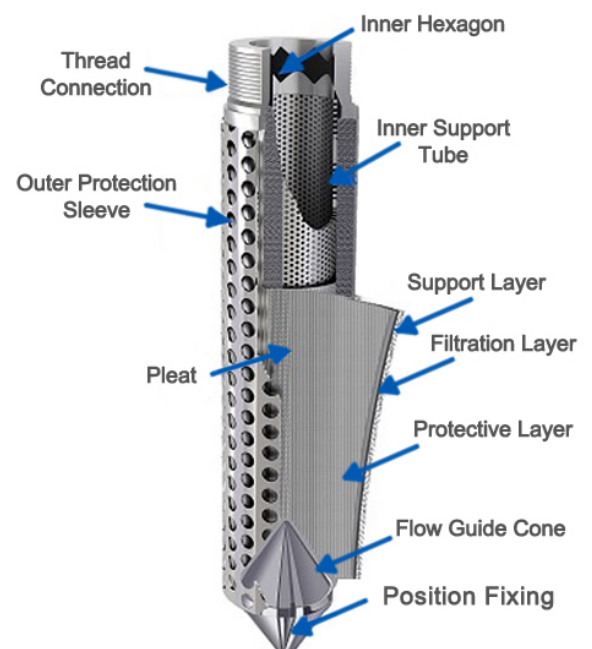
The polymer filter elements are constructed with supporting layers and filter layers that pleated together. With supporting layer, it could undertake the high pressure. With the pleated process, it increased the filtration area several times than usual candle filter. Because of this, it shorten the filter time and improve the filter effectiveness.

Applications:

Polymer filtration including PE, LDPE, PET, PP, PA, PBT, PC, PEEK, BOPET, BOPP, PMMA, EVA, carbon-fiber , fiber, resin, film, sheet, etc.

Advantages:

- ✓ **High flow rates.** With the pleated process, it increase the filter area and dirt holding capacity. That reduces the differential pressure and save the filter cost.
- ✓ **Long on-stream life time.** Our filter medium is suitable for different application environment, including stainless steel, Hastalloy, Inconel, Nickel..... These material makes the filter an excellent mechanical strength, good corrosion resistant and high temperature. These help extend the service life and save cost.
- ✓ **Easy to clean.** Through superheated steam, chemical cleaning, Ultrasonic cleaning and other method to clean the contamination. We have the skilled technical department to solve the critical cleaning problems to extend the filter on-stream lifetime.





The Comparison of Polymer Filter Element With Different Filter Layer

Item	Woven Mesh as Filter Layer	Filter Fiber as Filter Layer
Filter media	Hard particulate	Hard particle and deformable gel
Filter micron	5-400micron	1-100micron
Dirt holding capacity	Low	High
Permeability	Good	Good
Work differential pressure	High	High
Work temperature	High	High
Repeat cleaning	Yes	Yes
Corrosion resistant	Good	Good

Conclusion:

The woven mesh for filter layer is suitable for filtering bigger hard particle with low dirt holding capacity. The filter fiber for filter layer is suitable for filtering finer hard particle and deformable gel with high dirt holding capacity.

FILTALLOY



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