



Filter Elements

Stainless steel filter elements are one of the most commonly used industrial filter elements due to its excellent corrosion resistance and excellent filtration performance. It is widely used in a wide range of filtration applications, such as chemicals, high viscosity liquids and food & beverage industries.

According to the construction of the filter elements, we have pleated & cylindrical filter elements for your option to meet your specific requirements for filtration.

Benefits for sieving

- ✓ Elements are manufactured from 304 or 316 stainless steel wire cloth material
- ✓ Stainless steel filter elements are easy to clean and enjoy a long service life
- ✓ Stainless steel wire cloth is available in various mesh patterns, including square weave, twilled dutch weave, plain dutch weave
- ✓ A full range of mesh opening sizes are available to meet different filtration demands.
- ✓ Easy cleanable by conventional chemical cleaning
- ✓ High temperature & high pressure resistance

Pleated Filter Elements

The pleated layers are normally two or three layers of woven wire mesh, together with inside perforated metal tube support. The outside layer of perforated metal tube is optional. The pleated multi-layer wire cloth filter layer offers extended filtration area and high dirt control capacities. Therefore, it is widely used in the field of medicament, food, petroleum, chemical and hydraulic oil filtration as well as water treatment, etc.

Specification

- Material: stainless steel 304, 316, 316L
- Filter medium: stainless steel wire cloth
- Micro rating: 2–840 μm
- Inside diameter: 1-1/16" (27 mm)
- Outside diameter: 2-5/8" (67 mm)
- Grommet
 - Inside diameter: 1-1/16" (27 mm)
 - Outside diameter: 1-7/8" (48 mm)
- Nominal length: 4" (102 mm), 9.75" (248 mm), 10" (254 mm), 19.5" (495 mm), 20" (508 mm), 30" (745 mm), 40" (1016 mm)
- Flow rate: 10 gpm (38 lpm) per 10 inch
- Effective filtration area: 1.7 ft²/10 inch length (1580 cm²/254 mm)
- Maximum differential pressure: 20.7 bar
- Maximum working temperature: 300 °C
- Construction method: welded and crimped (no adhesives)



Nominal Micrometer Rating (μm)	Mesh Count (per inch)	Percent Open Area (%)
2	325 × 2300	NA
5	200 × 1400	NA
10	165 × 1400	NA
20	200 × 600	NA
40	120 × 400	NA
75	190 × 200	35
100	30 × 150	31
150	90 × 100	33
190	70 × 80	35
230	50 × 60	41
280	40 × 50	35
370	40 × 40	36
540	30 × 30	45
840	20 × 20	52

Cylindrical Filter Elements

Each cylindrical filter element consists of a cylindrical perforated support structure. The filter media fits over the perforated support structure. We adopt stainless steel woven wire cloth as the filter media for efficient filtration while guaranteeing the adherence of the filter to the cloth. They are widely used in petroleum, plastics, electroplating, chemical, ceramics, sugar and other industries.

Specification

- Material: stainless steel 304, 316, 316L
- Filter medium: stainless steel wire cloth
- Micro rating: 2–840 μm
- Inside diameter: 1-1/16" (27 mm)
- Outside diameter: 2-1/2" (67 mm)
- Grommet
 - Inside diameter: 1-1/16" (27 mm)
 - Outside diameter: 1-7/8" (48 mm)
- Nominal length: 4" (102 mm), 9.75" (248 mm), 10" (254 mm), 19.5" (495 mm), 20" (508 mm), 30" (745 mm), 40" (1016 mm)
- Flow rate: 10 gpm (38 lpm) per 10 inch
- Effective filtration area: 0.5 ft²/10 inch length (465 cm²/254 mm)
- Construction method: welded and crimped (no adhesives)



Nominal Micrometer Rating (μm)	Mesh Count (per inch)	Percent Open Area (%)
2	325 × 2300	NA
5	200 × 1400	NA
10	165 × 1400	NA
20	200 × 600	NA
40	120 × 400	NA
75	190 × 200	35
100	30 × 150	31
150	90 × 100	33
190	70 × 80	35
230	50 × 60	41
280	40 × 50	35
370	40 × 40	36
540	30 × 30	45
840	20 × 20	52