Filtering

Leaf Filters

Leaf filters, also known as filter leaves, are the most important parts of pressure vessels with permanent filter leaves for liquid & solid filtration. Made of stainless steel construction, our filter leaves commonly consist of 5 layers of stainless steel wire cloth made of different wire gauges upon your request. Generally, there are 2 layers of fine filter mesh, 2 layers of supporting mesh and 1 drainage mesh. Then, the 5 layers are held together by a tubular frame to form a complete filter leaf.

Filter leaves are supplied in groups to increase the filtration area of the leaf filter, thereby improving the filtration rate and product clarity. Filter leaves can be made into various sizes and shapes to satisfy the specific requirements of your pressure leaf filters.

Benefits for sieving

√ Low pressure drop
√ Large filtration area
√ High filtration efficiency
√ Available in different mesh types and layer combinations.
√ Extensive range of frame types with riveted, welded or bolted for your option.

Specification

Material: 304, 316, 316L.
Screen layers: two or three.
Mesh count: 0.03–0.5 mm
Mesh count: 16–325 mesh
Aperture width: 0.043–1.19 mm
Open screening area: 30.4% – 61%

Construction	Mesh	Wire Thickness (mm)	Aperture (μm)
1 layer of drainage mesh	Plain weave, 4 × 4	1.6	4750
2 layer of support mesh	Plain weave, 8 × 8	0.7	2470
2 layer of fine filter mesh	Plain weave, 60 × 60	0.18	240
	Plain dutch weave, 24 × 110	0.54	152
	Plain dutch weave, 24 × 128	0.58	75
	Plain dutch weave, 30 × 150	0.53	85
	Reverse plain dutch weave, PZ 80	0.77	91
	Reverse dutch twill weave, KPZ 55	0.73	100

Applications

- Edible oil industry
- Beverage industry
- Chemical industry
- Pharmaceutical industry
- Petrochemical industry
- Lube oil re-refining.
- Sulphur filtration
- Bleaching earth
- Brine manufacturing
- Glucose industry

Edible oil

Beverage

Sulphur

Pharmaceutical