

Sintered MESH

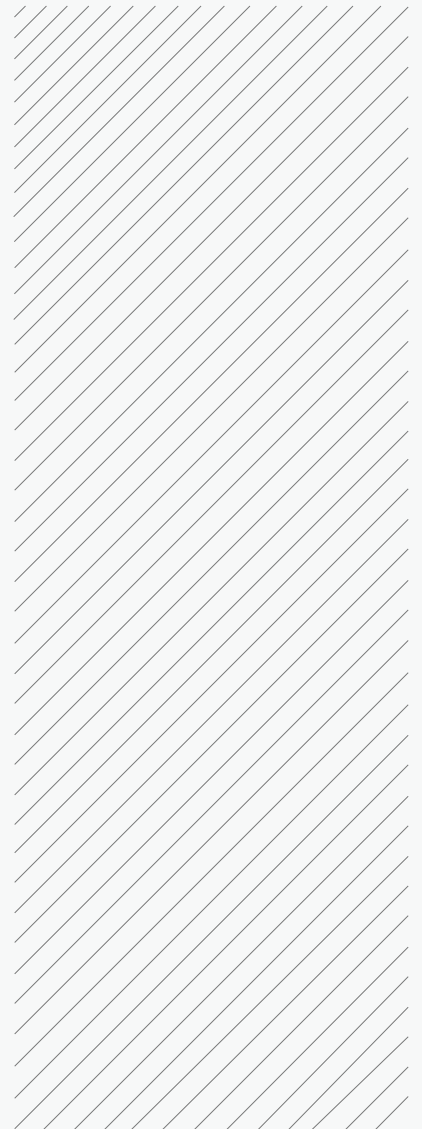
Weave Impossible to Possible



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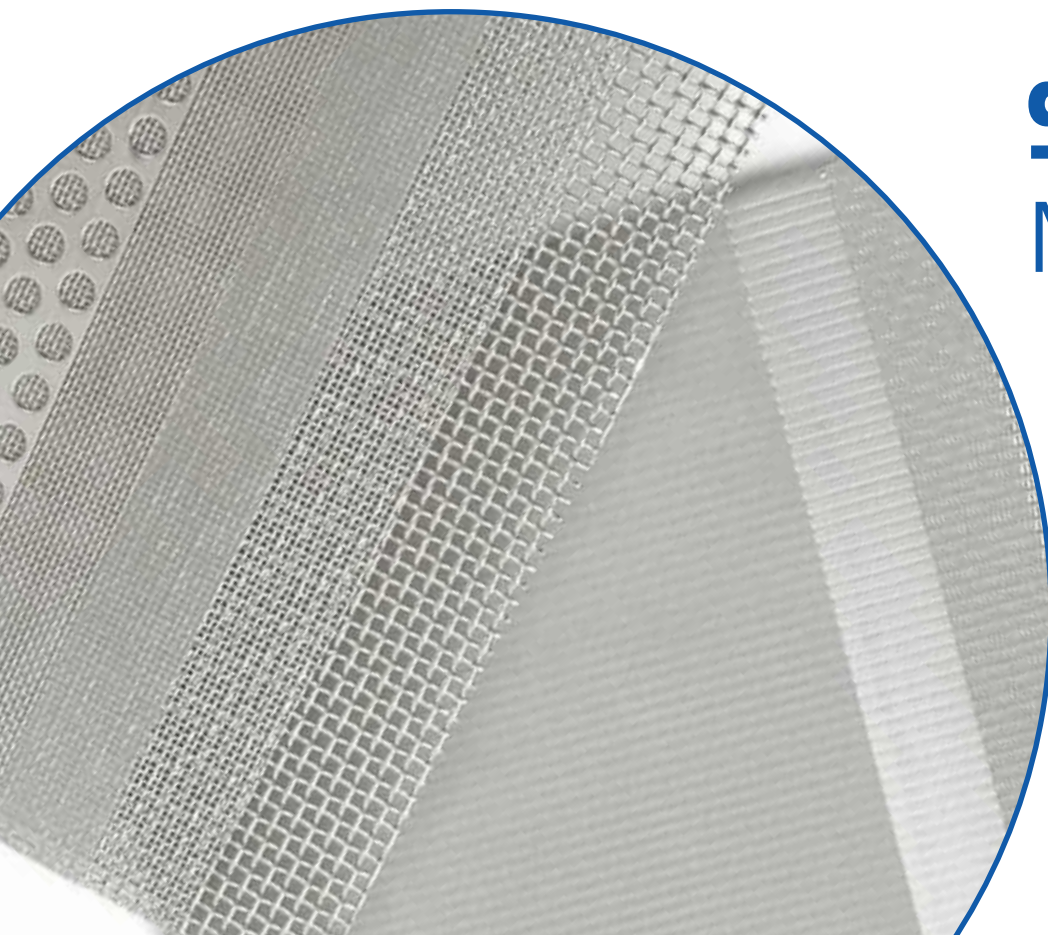




Sintered mesh performs well in fine filtration applications and has good resistant to acid, alkali and corrosion.

Sintered mesh is generally constructed from multiple layers of stainless steel woven mesh after special laminate pressing and vacuum sintering. It is a new type filter material with higher mechanical strength and overall rigidity, and can be fabricated into filter elements in various shapes, such as round, cylindrical, conical, and pleated shapes. Sintered mesh has uniform pores and not easy to deform, thus delivering a stable filter rating and easy to clean property. As a result, it is widely used in the filtration of chemical, petroleum, pharmaceutical industries, etc.

In addition, we can offer sintered mesh made of Hastelloy, Monel and other alloys to meet the needs of different customers.

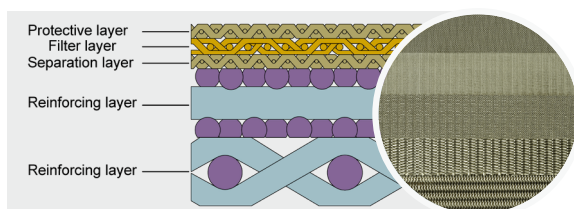


Sintered MESH

SINTERED MESH

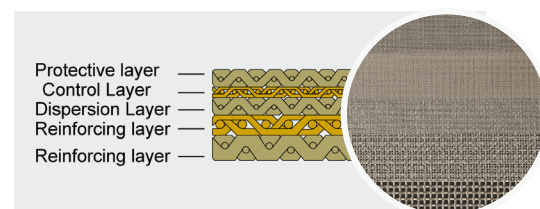
Category

Standard 5-Layer Sintered Mesh



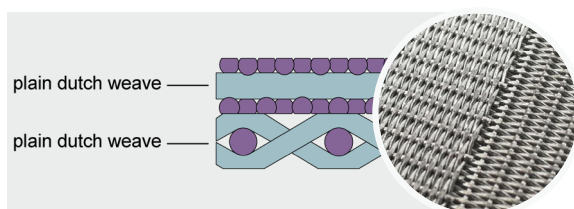
A standard and the most widely used sintered mesh. It is a combination of 5 layers of wire mesh with different openings and mesh counts after laminating and vacuum sintering. We can also offer 6-layer sintered mesh that adds a 8-mesh or a 12-mesh square weave mesh on the 5-layer sintered mesh to offer higher mechanical strength and compression strength.

All Square Weave Sintered Mesh



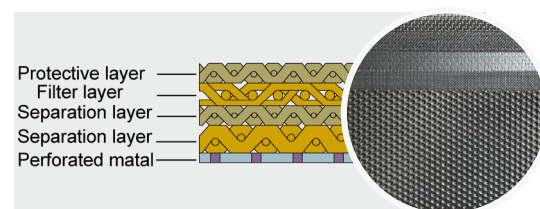
It is made of multiple layers of square plain weave wire mesh after sintering. Square weave wire mesh has square hole opening and high open area rate, so this sintered mesh has excellent permeability, low resistance, high flow rate, etc. It is widely used in powder handling, drying and cooling and other fields with functional requirements, for example, acting as sintered mesh candle filter in chemical filtration applications.

All Dutch Weave Sintered Mesh



It is constructed of two or three layers of plain Dutch weave wire mesh after laminating and sintering. It has uniform opening distribution and stable permeability and is widely used in fluidized bed, powder handling, air drying, cooling, etc.

Perforated Metal Sintered Mesh



It is fabricated by sintering multiple layers of square weave mesh (or Dutch weave mesh) and stainless steel perforated metal (round or square pattern) together. As a result, it combines the good permeability of woven mesh and the excellent mechanical strength of perforated mesh. In addition, it has great backwashing effect and low pressure lose and is widely used in mining, pharmaceuticals, grain screening, etc.

SINTERED MESH

Specification



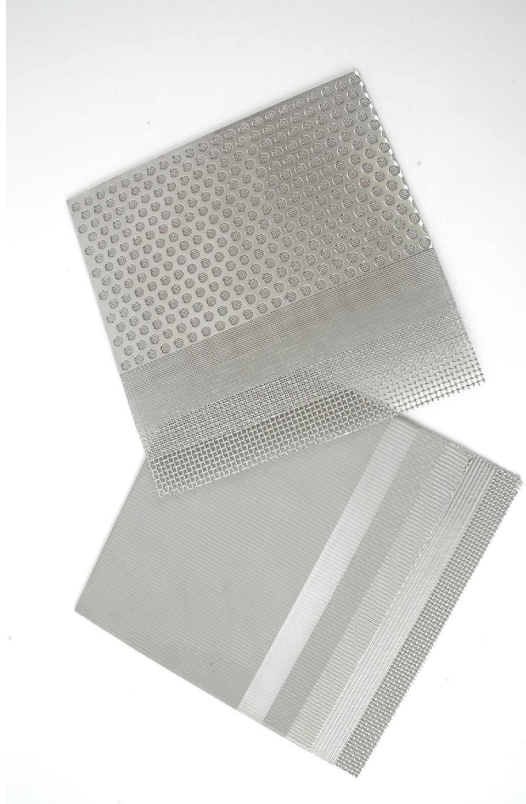
Material: stainless steel (304, 316L, etc.), Hastelloy, Monel, etc.



Maximum operating temperature: 480 °C.



Filter rating: 1–100 μm



Filtration Performance of Standard 5-Layer Sintered Mesh

Nominal Filter Rating (μm)	Protection Layer	Filtration Layer	Separation Layer	Reinforcing Layer	Reinforcing Layer	Air Permeability (L/min/cm ²)	Bubble Point Pressure (Pa)	Porosity (%)
1	100	400 × 3000	100	12 × 64	64 × 12	1.81	360–600	About 40%
2	100	325 × 2300	100	12 × 64	64 × 12	2.35	300–590	
5	100	200 × 1400	100	12 × 64	64 × 12	2.42	260–550	
10	100	165 × 1400	100	12 × 64	64 × 12	3	220–500	
15	100	165 × 1200	100	12 × 64	64 × 12	3.41	200–480	
20	100	165 × 800	100	12 × 64	64 × 12	4.5	170–450	
25	100	165 × 600	100	12 × 64	64 × 12	6.12	150–410	
30	100	400	100	12 × 64	64 × 12	6.86	120–390	
40	100	325	100	12 × 64	64 × 12	7.1	100–350	
50	100	250	100	12 × 64	64 × 12	8.41	90–300	
75	100	200	100	12 × 64	64 × 12	8.7	80–250	
100	100	150	100	12 × 64	64 × 12	9.1	70–190	

Notes

- The standard 5-layer sintered mesh is 8.4 kg/m² in weight and 1.7 mm in thickness.
- The 6-layer sintered mesh is 14.4 kg/m² in weight and 3.5 mm in thickness. It is added with a 12-mesh wire mesh on the 5-layer sintered mesh to offer better compression resistance.

SINTERED MESH

Features & Application

Features

- High temperature sintering, high strength and durable
- Corrosion resistance and up to 480 °C high temperature resistance.
- Stable filter rating
- Equipped with 2 protection layers, not easy to deform
- Stable opening size
- Can be cut, bent and welded

Application



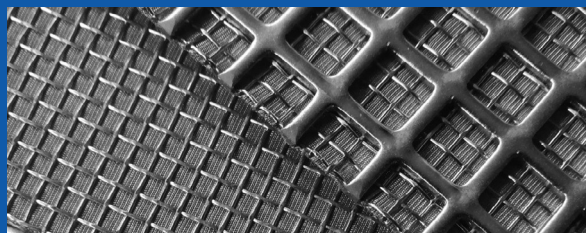
Polymer Filtration

Polymer leaf disc filter production



Chemical Filtration

Sintered mesh candle filter production



Other Filter Elements

Fluidization plate and catalyst thickener filter



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