

Sintered Wire Mesh & Sintered Fiber Felt



Brilliant Metal Mesh





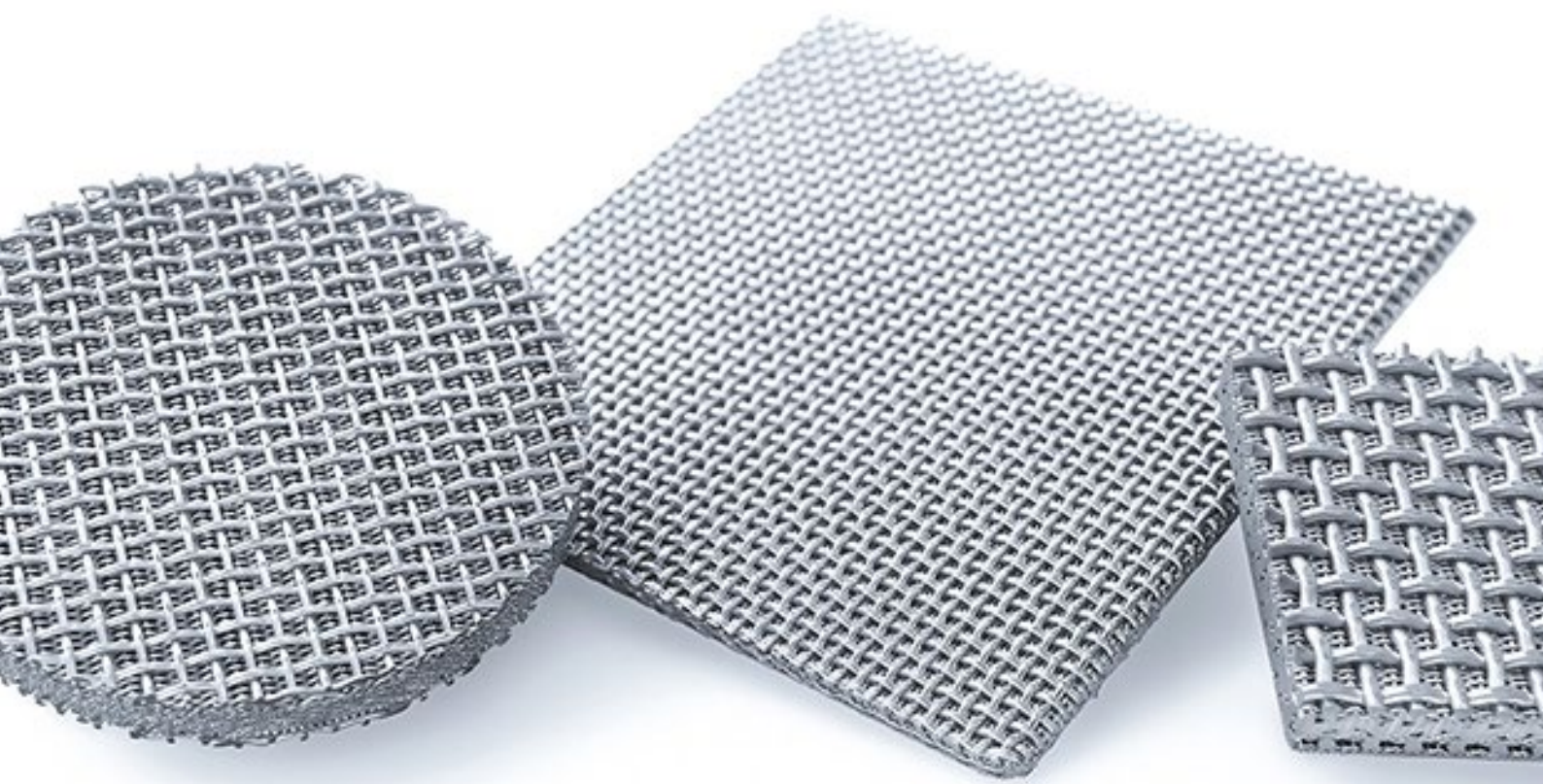
About **Brilliant Metals**

Brilliant Metals was established in 2006 and is located in Anping County Hebei Province, China. The company focuses on the production and sales of sintered wire mesh filter, sintered fiber felt and stainless steel wire mesh, and is a professional wire mesh manufacturer with 3 sets of sintering equipment, 50 sets of woven mesh equipment and 3 set of quality inspection equipment. After years of development, Brilliant Metals has become one of the leading companies in the industry.

Our products mainly include sintered wire mesh materials such as stainless steel, nickel alloy, Hastelloy, Monel, Inconel, etc. These materials have the advantages of high strength, high hardness, high wear resistance, etc., and are widely used in aerospace, automobile manufacturing, pharmaceutical industry, petroleum and chemical industry and other fields. We are constantly launching new products to meet the changing needs of our customers.

In addition to high-quality products, Brilliant Metal Mesh also provides a full range of services. We have a professional technical team that can provide technical support and solutions to customers. At the same time, we have also established a complete after-sales service system to ensure that customers get timely and effective help during use.

In the future, Brilliant Metals company will continue to adhere to the concept of "quality first, service first", continuously improve product quality and service level, and create greater value for customers.

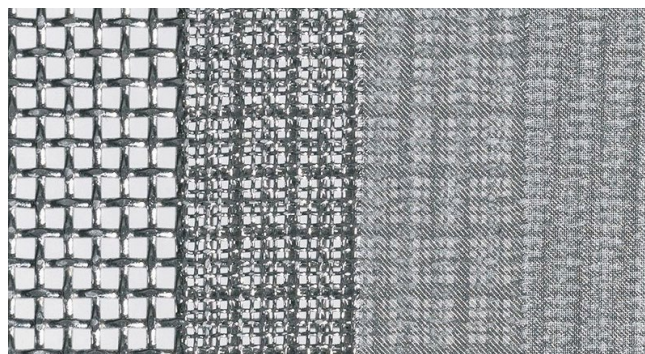
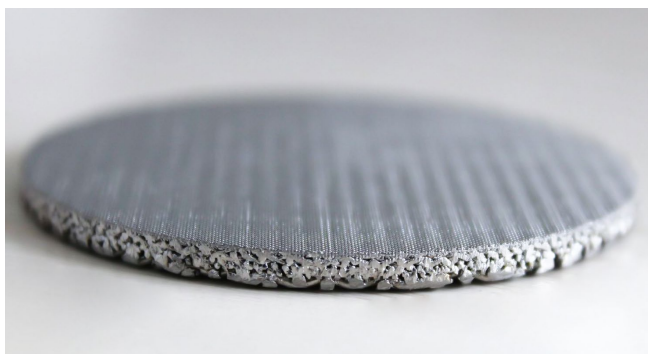


Sintered Wire Mesh

Specifications of 5-Layer Sintered Mesh Filter

Model No.	Nominal Filter Rating (µm)	Structure: Protective Layer + Control Layer + Dispersion Layer + Reinforce Layer + Reinforce Layer	Thick-ness (mm)	Air Perme-ability (L/min/cm ²)	Bubble Pressure (mm H ₂ O)	Weight (kg/m ²)
SWM1/5	1	100 + 400 × 2800 + 100 + 12 × 64 + 64 × 12	1.7	1.81	360-600	8.4 kg/m ²
SWM2/5	2	100 + 325 × 2300 + 100 + 12 × 64 + 64 × 12	1.7	2.35	300-590	
SWM5/5	5	100 + 200 × 1400 + 100 + 12 × 64 + 64 × 12	1.7	2.42	260-550	
SWM10/5	10	100 + 165 × 1400 + 100 + 12 × 64 + 64 × 12	1.7	3.00	220-500	
SWM15/5	15	100 + 165 × 1200 + 100 + 12 × 64 + 64 × 12	1.7	3.41	200-480	
SWM20/5	20	100 + 165 × 800 + 100 + 12 × 64 + 64 × 12	1.7	4.50	170-450	
SWM25/5	25	100 + 165 × 600 + 100 + 12 × 64 + 64 × 12	1.7	6.12	150-410	
SWM30/5	30	100 + 450 + 100 + 12 × 64 + 64 × 12	1.7	6.70	120-390	
SWM40/5	40	100 + 325 + 100 + 12 × 64 + 64 × 12	1.7	6.86	100-350	
SWM50/5	50	100 + 250 + 100 + 12 × 64 + 64 × 12	1.7	8.41	90-300	
SWM75/5	75	100 + 200 + 100 + 12 × 64 + 64 × 12	1.7	8.70	80-250	
SWM100/5	100	100 + 150 + 100 + 12 × 64 + 64 × 12	1.7	9.10	70-190	
SWM150/5	150	50 + 100 + 50 + 30 × 30 + 100 × 50	2.0	25	50-150	
SWM200/5	200	40 + 80 + 40 + 20 × 40 + 80 × 40	2.0	26	50-150	

Plain Weave Sintered Mesh



Material: AISI 304, 304L, 316, 316L, alloy Hastelloy, Monel, Inconel, etc.

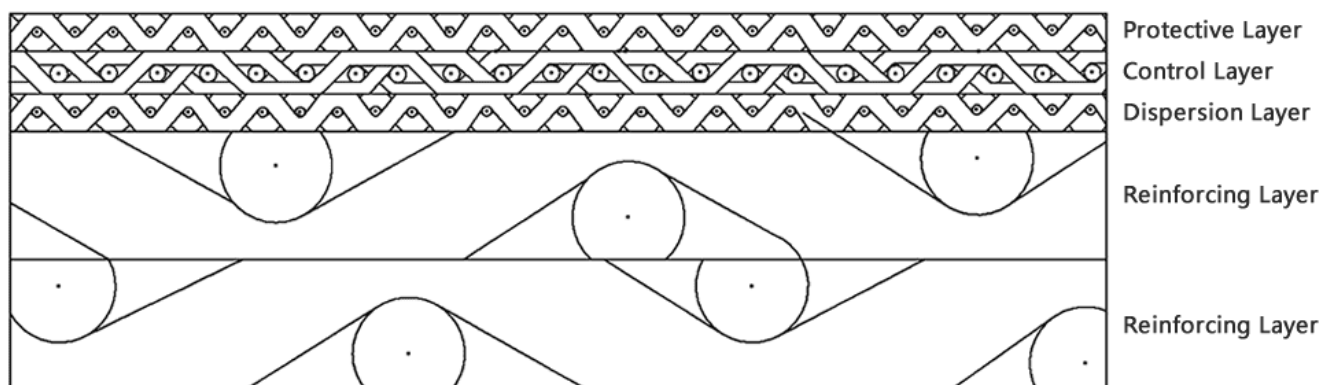
Filter rating: 1-200 μm

Standard size (mm):

300 × 1000, 300 × 1500, 500 × 1000, 600 × 1200, 1000 × 1000, 1200 × 1200, 1000 × 1500, 1200 × 1500.

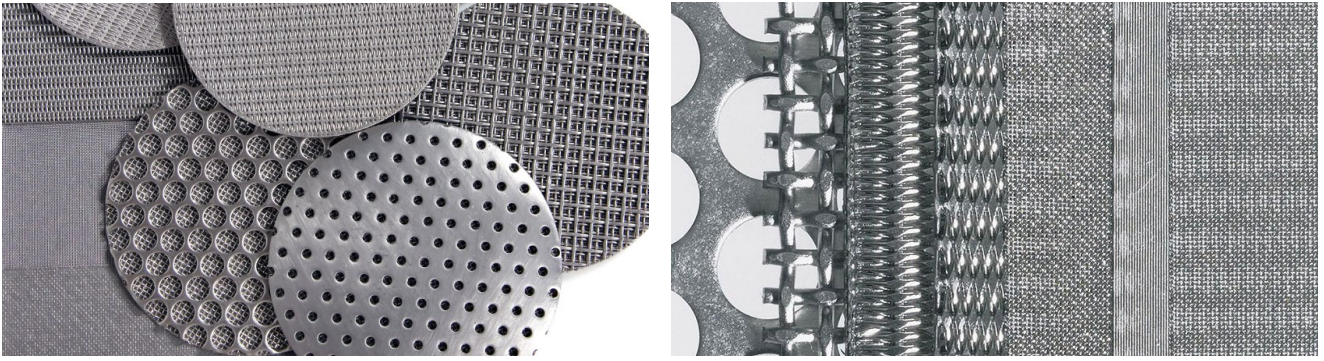
Thickness: 0.5-2 mm.

Uses: Filtration and purification, gas-solid, liquid-solid and gas-liquid separation, divergent cooling, gas distribution, air flotation transmission, fluidized bed, gas collection, shock absorption, noise reduction, flame retardant, etc.



Model	Structure	Filter rating (μm)	Thickness (mm)	Weight (kg/m ²)	Porosity (%)
PWS2-0.5T	Filter layer + 60	2-100	0.5	1.6	60
PWS3-0.7T	60 + Filter layer + 60	2-100	0.7	2.4	56
PWS3-1.0T	50 + Filter layer + 20	20-200	1.0	3.3	58
PWS3-2.0T	Filter layer + 20 + 8.5	20-250	2.0	6.5	58
PWS4-1.0T	60 + Filter layer + 40 + 20	2-200	1.0	4.4	44
PWS4-1.7T	40 + Filter layer + 20 + 16	2-200	1.7	6.2	54
PWS5-1.9T	30 + Filter layer + 60 + 20 + 16	2-200	1.9	5.3	52
PWS5-2.5T	80 + Filter layer + 30 + 10 + 8.5	2-200	2.5	8.8	55
PWS7-2.0T	50 + Filter layer + 40 + 20 + 40 + Filter layer + 50	2-150	2.0	7.4	58

Perforated Sintered Mesh



Material: AISI 304, 304L, 316, 316L, alloy Hastelloy, Monel, Inconel, etc.

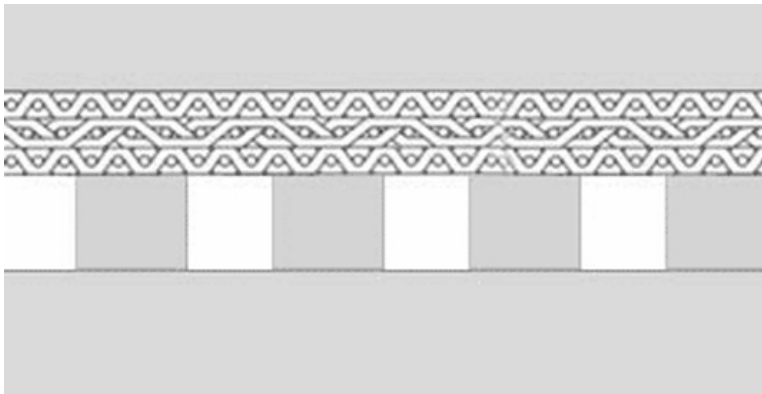
Filter rating: 1-200 μm

Standard size (mm):

300 × 1000, 300 × 1500, 500 × 1000, 600 × 1200, 1000 × 1000, 1200 × 1200, 1000 × 1500, 1200 × 1500.

Thickness: 2-5 mm.

Uses: Filtration and purification, gas-solid, liquid-solid and gas-liquid separation, divergent cooling, gas distribution, air flotation transmission, fluidized bed, gas collection, shock absorption, noise reduction, flame retardant, etc.



Protective Layer
Control Layer
Dispersion Layer
Reinforcing Layer

Item	Filter Rating (μm)	Structure	Thickness (mm)	Weight (kg/m ²)	Porosity (%)
PSM4-2.0T	2-200	30+Filter layer+30+ \varnothing 4 x 5P x 1.0T	2.0	6.7	57
PSM4-2.5T	2-200	30+Filter layer+30+ \varnothing 5 x 7P x 1.5T	2.5	9.8	50
PSM5-3.0T	2-200	60+Filter layer+60+20+ \varnothing 6 x 8P x 2.0T	3.0	11.8	50
PSM5-3.5T	2-200	20+Filter layer+20+10+ \varnothing 8 x 10P x 2.0T	3.5	12.6	54
PSM5-4.0T	2-200	20+Filter layer+20+10+ \varnothing 8 x 10P x 2.5T	4.0	14.2	55
PSM5-4.3T	5-200	20+Filter layer+20+10+ \varnothing 10 x 13P x 3.0T	4.3	16.9	50
PSM5-5.3T	5-200	20+Filter layer+20+10+ \varnothing 10 x 13P x 4.0T	5.3	20.6	51



Sintered Fiber Felt

Product Features:

1. Large dirt holding capacity, high filtration precision, slow pressure rise, and long replacement cycle.
2. High porosity and excellent permeability, small pressure loss and large flow.
3. It is resistant to high pressure, high temperature, corrosion and machinery.
4. Easy to process, form and weld.
5. Reinforced, thickened and other specifications can be specially produced according to user requirements.

Applications: Polymer filtration, viscose filtration, high temperature gas dust removal, filtration of oil burning process, and chemical catalyst filtration.

Specifications

Item	Precision (μm)	Bubble pressure point (Pa)	Permeability L/min. dm ²	Porosity (%)	Pollutant-holding capacity, mg/cm ³	Thickness (mm)
SFF5	5	6500	35	75	5	0.5
SFF7	7	5000	55	75	6	0.5
SFF10	10	3700	100	79	7	0.5
SFF15	15	2450	140	78	9	0.5
SFF20	20	1900	260	77	15	0.5
SFF25	25	1500	320	76	21	0.5
SFF30	30	1200	480	75	26	0.5
SFF40	40	950	650	77	35	0.5
SFF60	60	650	1100	77	38	0.5

Why Choose Us

Brilliant Metals provides one-stop product services, including but not limited to cutting, welding, surface treatment processes such as polishing, pickling and passivation, etc.

Cut to Any Size and Shape



Brilliant Metals provides various cutting services, such as laser cutting, plasma cutting, knife cutting, wire-electrode cutting, and can cut metal mesh into specified sizes and shapes according to customer requirements, so as to provide customers with products of precise dimensions.

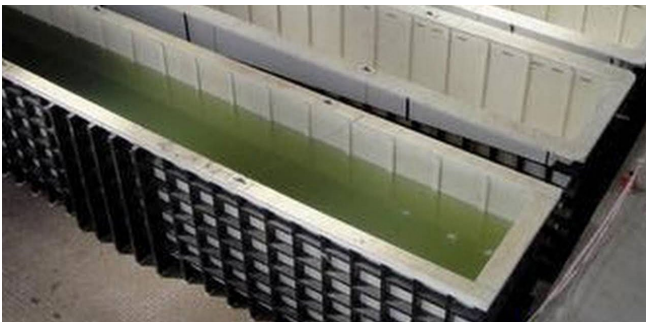
Electropolishing



Brilliant Metals provides electrolytic polishing services. After electrolytic polishing, the metal surface is clearer, brighter and cleaner, without residual mechanical polishing dust, and has better corrosion resistance.

It's the best solution to your deburring problem, and it's usually less expensive than

Pickling



Brilliant Metal Mesh provides pickling process. Pickling can remove scale and rust on the metal surface. Generally, the workpiece is immersed in an aqueous solution of sulfuric acid to remove the oxide film on the metal surface.

Passivation

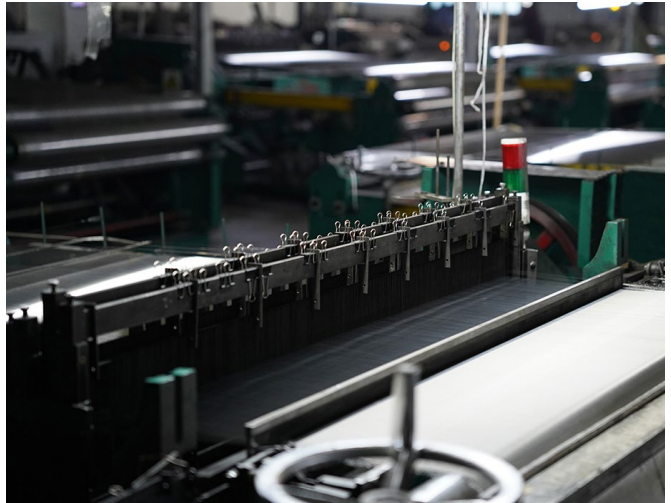


Brilliant Metals company provides metal passivation process. Stainless steel passivation is to form a thin protective film (oxide film) on the surface under the action of oxygen or oxidizing medium, so that stainless steel and corrosive medium are isolated from each other, thereby improving the corrosion resistance of stainless steel .

Our Equipment / Factory Show



Vacuum Sintering Furnace



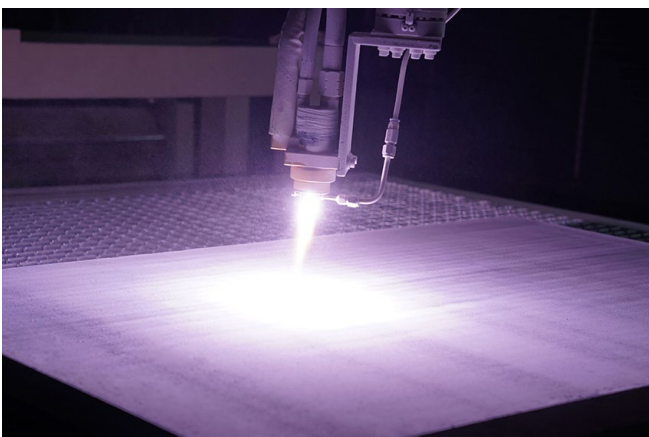
Woven Wire Mesh Equipment



Laser Cutting Equipment



Strip Cutting Machine



Plasma Spraying Equipment



Warehouse



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