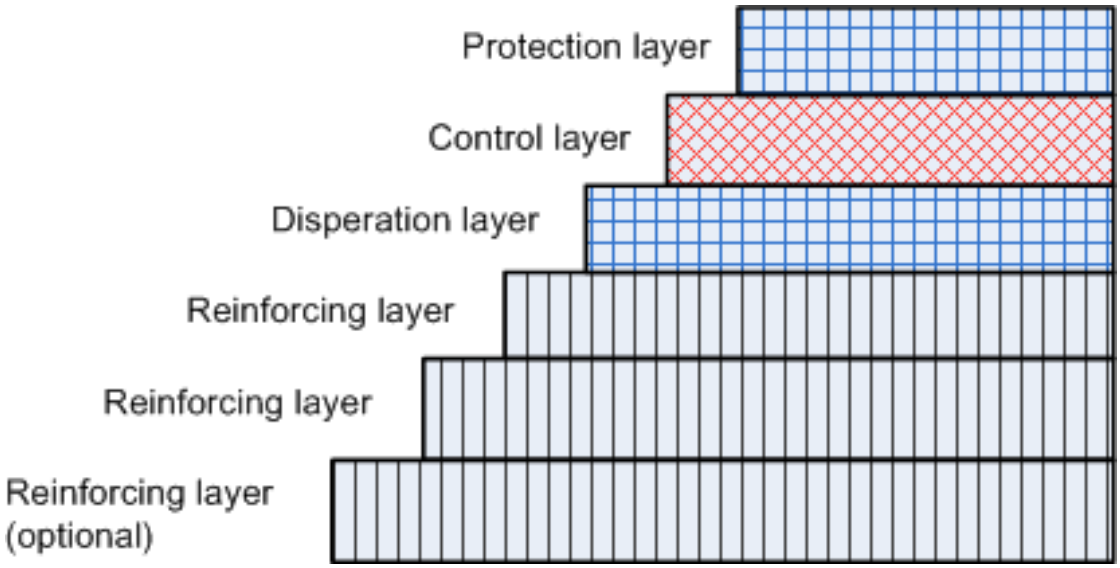

E-Catalog

Sintered
Wire Mesh

Sintered wire mesh

Sintered wire mesh is the combination of different layer of wire mesh sintered under high temperature inert gas inside the furnace. During the sintering (diffusion bonding) process, individual wires and each adjacent layer of the mesh bond to each other. After cooling, the sintered wire mesh is rigid and completely flat readily to be finished.



Sintered wire mesh combines the property of the different layers and obtains more superior characteristics, such as:

-Maintaining steady filter rating even under high working pressure and temperature;
- Notably durable with robust construction;
- Excellent cleanability and dirt holding capacity;
- Ability to be processed by pleating, cutting, welding, punching, bending etc;
-Versatile configuration for various application due to layer material and quantity choice.

304, 304L, 316, 316L stainless steel are as standard. Other materials including 310, 904L, Duplex, Inconel, Hastelloy and Monel are also available for custom needs. Standard bulk sizes include 500*1000mm, 600*1200mm, 1000*1000mm and 1200*1200mm, other size and shape can be produced as required.

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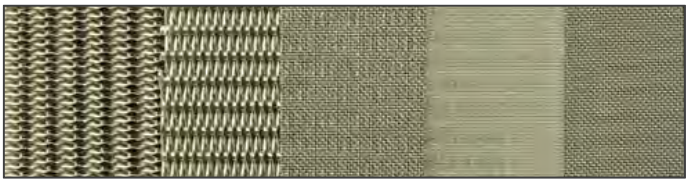
Type A sintered wire mesh
is the standard 5 layers sintered wire mesh with the widest applications in almost all the filtration and separation scenario.



Model	Nominal Rating μm	Structure	Thickness mm	Air Permeability l/min/cm2	Bubble Point Pressure mmH20
A5-1	1	100+400×2800+100+12×64+64×12	1.7	1.81	360-600
A5-2	2	100+325×2300+100+12×64+64×12	1.7	2.35	300-590
A5-5	5	100+200×1400+100+12×64+64×12	1.7	2.42	260-550
A5-10	10	100+165×1400+100+12×64+64×12	1.7	3.00	220-500
A5-15	15	100+165×1200+100+12×64+64×12	1.7	3.41	200-480
A5-20	20	100+165×800+100+12×64+64×12	1.7	4.50	170-450
A5-25	25	100+165×600+100+12×64+64×12	1.7	6.12	150-410
A5-30	30	100+400+100+12×64+64×12	1.7	6.70	120-390
A5-40	40	100+325+100+12×64+64×12	1.7	6.86	100-350
A5-50	50	100+250+100+12×64+64×12	1.7	8.41	90-300
A5-75	75	100+200+100+12×64+64×12	1.7	8.70	80-250
A5-100	100	100+150+100+12×64+64×12	1.7	9.10	70-190

Thickness: 1.7(mm); Porosity : ~37%;Weight kg/m²: 5-layers sintered wire mesh (8.4) 6-layers sintered wire mesh (14.4)
6-layers construction adds additional 12 mesh to ordinary 5-layers mesh for better pressure resistance, thus thickness reaches 3.5mm.

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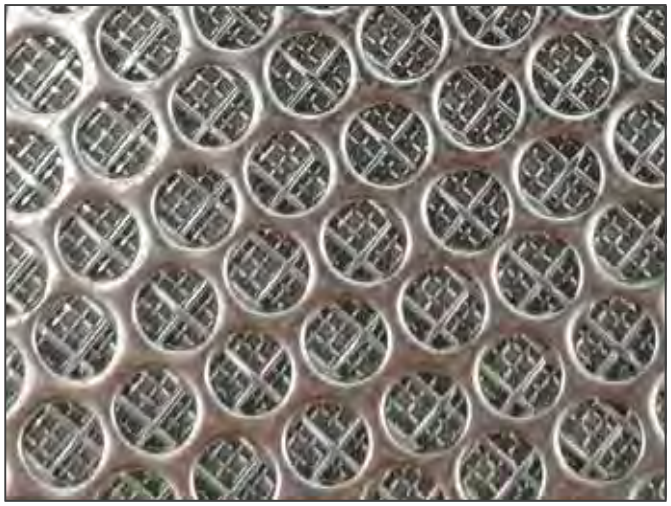
Type B sintered wire mesh is multi layers of plain weave mesh diffusion bonded. Due to the property of plain weave mesh, the type B sintered wire mesh is with excellent permeability and more suitable in applications of high flow rate.

Several standard structures are listed here while more other combinations of your specific needs also can be produced.

Model	Layer structure	Nominal rating μm	Thickness mm	Weight kg/m2	Porosity
B2-0.5T	Control layer+60	2-100	0.5	1.6	60
B3-0.7T	60+Control layer+60	2-100	0.7	2.4	56
B3-1.0T	50+Control layer+20	20-200	1.0	3.3	58
B3-2.0T	Control layer+20+8.5	20-250	2.0	6.5	58
B4-1.0T	60+Control layer+40+20	2-200	1.0	4.4	44
B4-1.7T	40+Control layer+20+16	2-200	1.7	6.2	54
B5-1.9T	30+Control layer+60+20+16	2-200	1.9	5.3	52
B5-2.5T	80+Control layer+30+10+8.5	2-200	2.5	8.8	55
B7-2.0T	50+Control layer+40+20+40+ Control layer+50	2-150	2.0	7.4	58

1. Filtration control layer can be customized as you need.
2. Other layer structures are also available based on your specific requirement.
3. The porosity data is based on 40micron control layer.

Sintered wire mesh

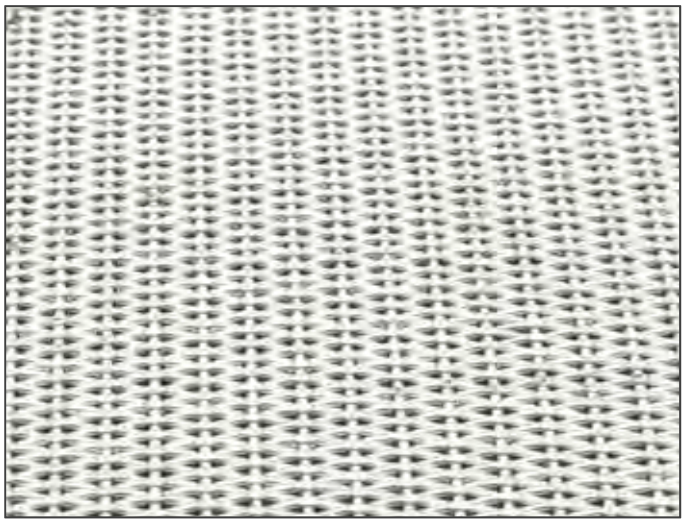


Type C can be called the “sintered wire mesh with perforated metal”. The perforated metal is sintered with other layers of wire mesh to give robust support for applications with high pressure and other tough requirements.

Type C can be fully customized from perforated metal and wire mesh selection to layer structures.

Type D sintered wire mesh is sintered with two or three layers of plain Dutch weave mesh. Type D has uniform distribution of pores due to the structure and alignment of the Dutch weave mesh.

Thus type D is perfectly applicable in applications of aeration, fluidizing, powder handling, air drying, etc.

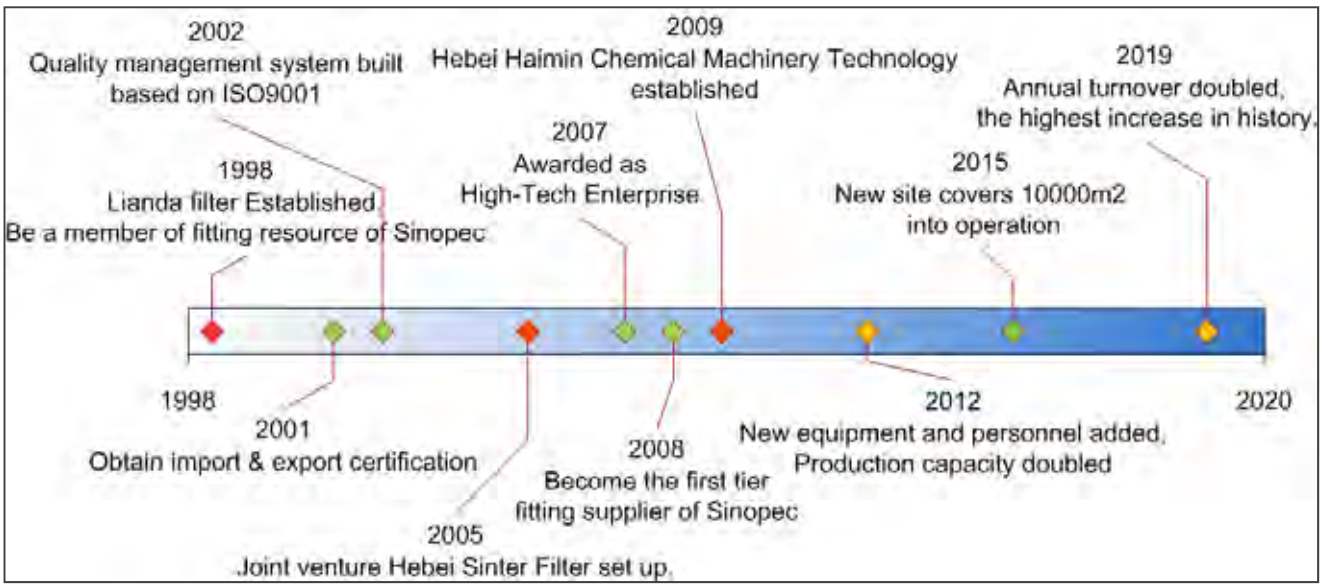


Who we are

Hebei Lianda Filter Equipment Co., Ltd. was founded in 1998. The company introduces foreign advanced production and testing equipment, production technology and technology, and adopts world-class quality filter materials as the main filter material, specializing in the production of porous metal sintered materials and filter elements. (Melt filter, sintered mesh filter, filter disc, filter and other industrial filters such as air filter, water filter, oil filter), filter and filter system assembly.

Products are widely used in petroleum, chemical, chemical fiber, aviation, aerospace, nuclear industry, pharmaceutical, metallurgy, electric power, water treatment, food and beverage, coal chemical and other industries.

The company relies on Beijing Aerospace Power Research Institute, Sinopec Engineering Design Institute, Beijing Iron and Steel Research Institute and other research institutes to initially form a production situation from raw materials, finished products to filtration system assemblies. He has participated in supporting projects of national key projects such as aviation, aerospace, nuclear industry and petrochemical industry. In recent years, the company has continuously improved its internal management and established a sound quality management system to enable the company to maintain its leading position in product quality and service quality competition.



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