



Baoji Highstar Titanium Metal

宝鸡恒星达钛金属贸易有限公司

www.bjhighstar.com

TITANIUM PRODUCTS PROFESSIONAL PROVIDER



Baoji Highstar Titanium Metal Trading Co., Ltd. is a modern enterprise founded with the brand-new management concept, which is the production and operation of titanium alloy materials and the manufacture of titanium products. The company firmly established the corporate philosophy of “Quality is life, quality is benefit, quality is the future” with high quality and high quality.

Under the guidance of this concept, the company manages the whole process of production and business activities in accordance with the requirements of ISO9000. From the

procurement of raw materials to the shipment of finished products.

Every link follows strict control, inspection and inspection. The company takes the famous testing center of Baoti Group Testing Center and Northwest Research Institute as the standard, so that the production process is inspected and controlled, thus ensuring that the products meet the requirements of contracts and related standards.

Operating site: Baoji High-tech Industrial Development Zone

Mainly engaged in: titanium sintered products, stainless steel sintered products, titanium anodes and other titanium related materials production and processing and sales, has more than 10 years of production and sales experience, in recent years dedicated to foreign trade exports.

Private industrial enterprises in Shaanxi Province

Production equipment: There are dozens of production testing equipments such as advanced and complete titanium metal rolling equipment, annealing equipment and straightening equipment.

System certification: ISO 9001-2008 management system certification, products in line with ASTM and GB/T3624 standards.

Metal powder filter materials, including titanium metal powder filter materials, stainless steel powder filter materials, and high temperature alloy metal powder filter materials.

TITANIUM POWER SINTERED FILTER MATERIAL

Filter Precision	porosity	penetrability	compression strength	temperature toleration	Maximum working pressure
0.5um-80um	20-50%	3-800m3/m3hkPa	2-3Mpa	250°C	0.6Mpa

The titanium powder sintered filter material (including tube type and plate type) is a microfiltration element which is made of industrial high-purity titanium powder (99.4%) as a raw material, which is sieved, formed and sintered. Therefore, titanium powder sintered filter material with its high-tech material composition and special molding process, so that it has unique excellent performance.

Titanium filter tube

Diameter: $\Phi 20\text{mm}$ — $\Phi 200\text{mm}$

Length: L100mm — L1200mm

Thickness: 1mm or more

Filtration Precision: 0.5um—50um

(other specifications can be processed as required)



Titanium filter plate

Diameter: (mm) Φ 5mm - Φ 300mm

Thickness: 0.5mm-10mm

Filtration Precision: 0.5 μ m—50 μ m

(other specifications can be processed as required)



HS METAL



HS METAL



Titanium filter application field

With its unique properties, titanium filter can be widely used in the pharmaceutical industry, water treatment industry, food industry, bioengineering, chemical industry, petrochemical, metallurgical industry and gas purification. It is a new type of filter material with broad development prospects.

Typical uses include:

1. The decarbonization filtration in the pharmaceutical industry's large infusion, small injection, eye drops, oral liquid blending and the terminal filtration before the terminal filtration.
2. Removal of impurities in the production process of raw materials, decarbonization filtration and fine filtration of materials.

3, water treatment of ultrafiltration, RO, EDI system security filtration, odor sterilization after filtration and ozone aeration.

4. Clarification and filtration of beverages, juices, spirits, beer, vegetable oil, mineral water, soy sauce and vinegar in food and beverage processing.

5. Decarbonization filtration and precision filtration of liquid products, liquid raw materials and pharmaceutical intermediates in the chemical industry, filtration and recovery of ultrafine crystals and catalysts, precision filtration after resin adsorption, system heat transfer oil, impurity removal of materials, catalytic gas Purification and so on.

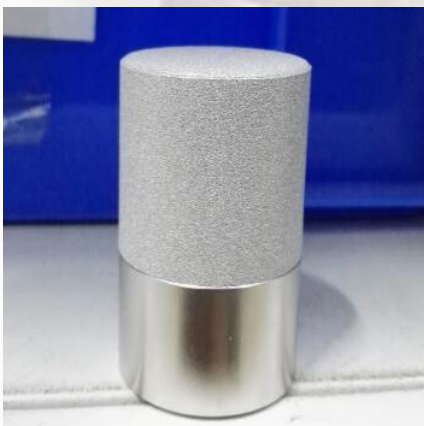
6. Oilfield re-injection water filtration, security filtration of reverse osmosis in the desalination field.

7. High-temperature decarbonization and de-whitening filtration in the dye industry.

8. Vapor, compressed air and catalyst filtration for gas purification.

Other filter product shapes

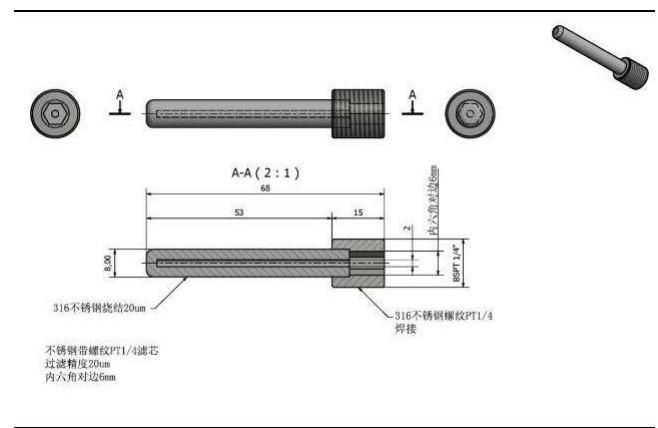
Please contact us for specific dimensions and Precision requirements. Most products have molds. If the demand is large, the molds can be re-customized for production.



STAINLESS STEEL FILTER MATERIAL

Filter Precision	porosity	penetrability	compression strength	temperature toleration	Maximum working pressure
0.5um-70um	20-50%	3-1300m3/m3hkPa	3Mpa	500℃	0.6Mpa

The stainless steel powder sintered filter material (including tube type and plate type) is a microfiltration element which is made of 304.304L.316.316L powder, which is sieved, shaped and sintered. High filtration precision, good gas permeability, high mechanical strength, high material utilization, suitable for high working temperature and thermal shock resistance. Widely used in pneumatic components, chemicals, environmental protection and other fields. Porous components of various shapes, structures, different particle sizes and porosity can be produced according to user requirements, such as: cover, cap, sheet, tube, rod filter element. Therefore, the stainless steel powder sintered filter material has its unique high performance due to its high-tech material composition and special molding process.



Stainless steel powder sintered filter tube

Diameter: Φ 20mm - Φ 200mm

Length: L50-L1200

Thickness: 1mm or more

Filtration Precision: 0.5um - 70um



Stainless steel powder sintered filter plate

Diameter: (mm) Φ 5- Φ 300

Thickness: 0.5-10mm

Filtration Precision: 0.5um-70um

(other specifications can be processed as required)



SUPERALLOY POWDER SINTERED FILTER MATERIAL

Filter Precision	porosity	penetrability	compression strength	temperature toleration	Maximum working pressure
0.5um-70um	20-50%	3-1300m3/m3hkPa	3Mpa	800℃	0.6Mpa

The superalloy powder sintered filter material (including tube type and plate type) is a micro-filter element which is made of nickel-chromium alloy (INCONEL600) powder, which is sieved, formed and sintered. High filtration precision, good gas permeability, high mechanical strength, high material utilization, suitable for high working temperature and thermal shock resistance. Widely used in pneumatic components, chemicals, environmental protection and other fields. Porous components of various shapes, structures, different particle sizes and porosity can be produced according to user requirements, such as: cover, cap, sheet, tube, rod filter element. Therefore, the high-temperature alloy powder sintered filter material has its unique high-performance properties due to its high-tech material composition and special molding process.

Method for cleaning high temperature alloy powder sintered filter

1. For decarbonization filtration in the silicon industry and chemical industry, it is necessary to use backflushing and backwashing methods in combination with ultrasonic cleaning.
 - 2, the water industry, because the surface of the filter core is mostly water-insoluble salts and oxides, generally immersed in 5% nitric acid, without ultrasonic cleaning, can achieve the cleaning effect.
 - 3, the original liquid filtration, combined with the chemical nature of the pollutants, the following methods are used for cleaning:
 - (1) Alkaline washing: soaking with a 3-5% sodium hydroxide analytical pure solution for 30-60 minutes, the temperature is about 40 degrees, which is best in an ultrasonic cleaner. After soaking, filter the deionized water or the inside and outside of the injection water to neutral, and measure the conductivity. Dry with pure air $\geq 0.4\text{MPa}$ pressure.
 - (2) Pickling: Soaking with a 5% nitric acid solution for more than 8 hours, the temperature is about 40 degrees. Best in ultrasonic cleaners. After soaking, rinse with deionized water or water for injection to neutral, side conductivity. Dry with pure air $\geq 0.4\text{MPa}$ pressure.
 - (3) Organic matter contamination can be combined with surfactant cleaning, and the cell debris contamination system combined with enzyme cleaning effect is more ideal (food and beverage can be washed with high concentration of citric acid).
 - (4) The above methods can be used alone or in combination with each other. If available, the combination of ultrasonic cleaners works best.
- Note: Frequent backflushing on the line (cleaning with pure compressed air or filtered stock solution or clean water backflush) can reduce the number of cleanings using the above method.

POWDER SINTERING PART PROCESSING EQUIPMENT PICTURE





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