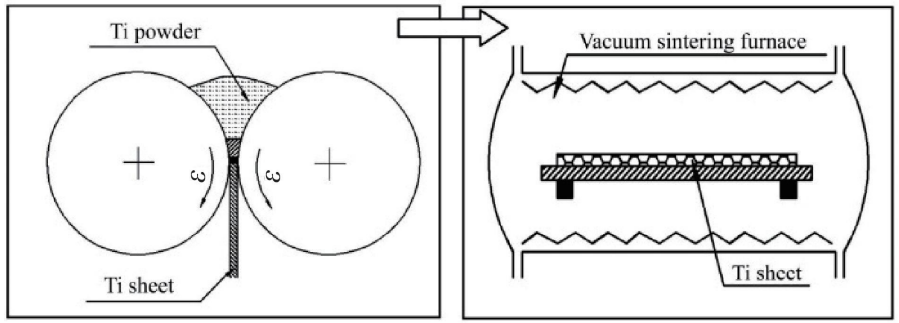
Titanium filter plate/disc

Using industrial high-purity titanium powder as raw material, titanium filter plate is sintered in high-temperature vacuum after sieving, rolling and forming.

Item Name·	Titanium filter plate/disc
Material	Titanium
Grade	GR1
Specification	Thickness：0.5mm-50.8mm Width：Max. 500mm Length：Max. 1000mm
Accuracy / Pore Size	0.2um-60um
Porosity	30%-40%
Thermal conductivity	6.7-7.5 W/(m·K)
Technique	Powder Sintering Process
Surface	Smooth, clean and metallic
Application	Metallurgy, electronics, medical, chemical, petroleum, medicine, aerospace, and other industries



Flow chart of porous Ti sheet fabricated by powder rolling combined with vacuum sintering

Porous filter plate is a type of porous metal product that is widely used in various industries such as chemical, medical, and food processing due to its excellent corrosion resistance and high strength.

During the sintering process, the Ti powder particles are bonded together to form a solid structure with interconnected pores of controlled size and shape. The resulting porous Ti plate has a high strength-to-weight ratio and can withstand high temperatures and harsh chemical environments.

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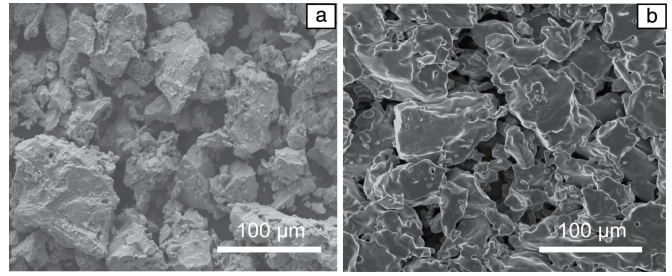

Cross-sectional SEM images of porous Ti sheet rolled withpowders in the size of 150 ~ 104 pm:
(a) before sintering (b) after sintering

Titanium powder sintered filter plates are widely used in various fields such as liquid filtration, gas filtration, and solid-liquid separation. When selecting titanium powder sintered filter plates, several factors need to be considered, including filtration requirements, filtration precision, flow rate needs, and operating conditions.

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