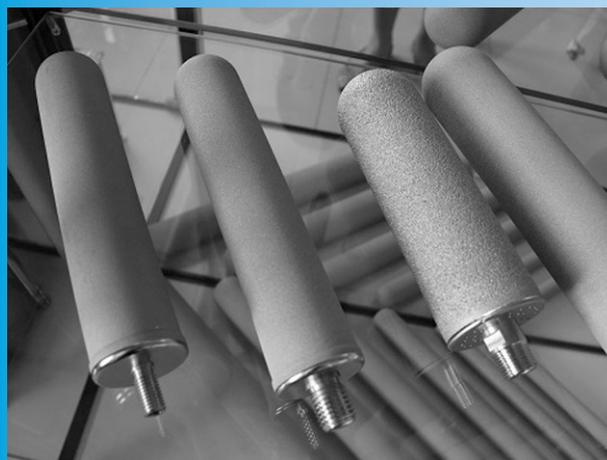
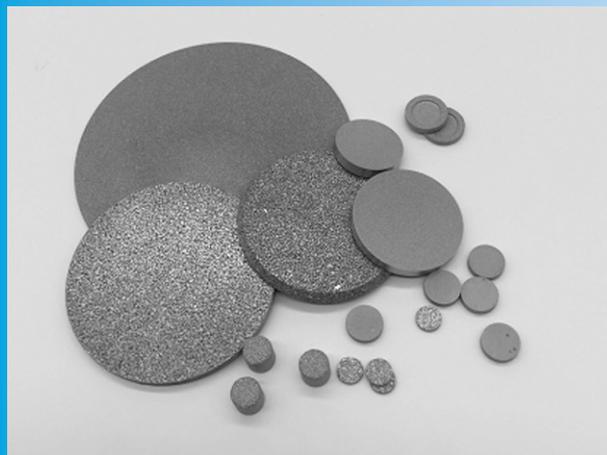
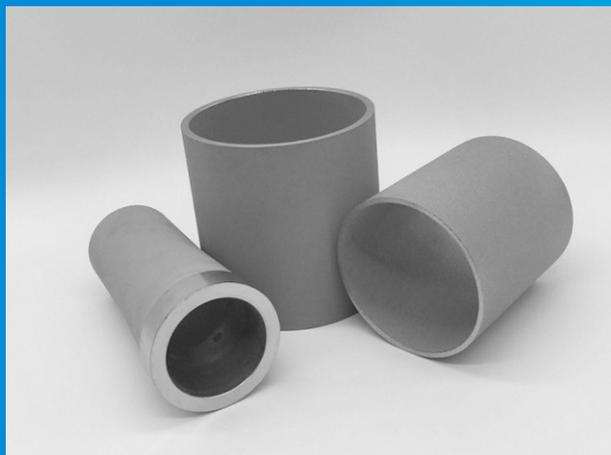


FILTER DATASHEET

CMI FILTRATION



Global Delivery and Fulfillment

The Reliable Company

Tel+86 021-80517634 E-mail: sales@cmi-ly.com Web: www.cmi-ly.com



Contents

CMI Sintered Metal Powder Filter Cartridge	Page 3
CMI Sintered Porous Coating Membrane Filter	Page 4
CMI Double Layer Sintered Porous Metal Filter	Page 5
CMI Sintered Metal Powder Sheet and Discs	Page 6

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CMI Sintered Metal Powder Filter Cartridge

HIGH QUALITY AND FLEXIBLE

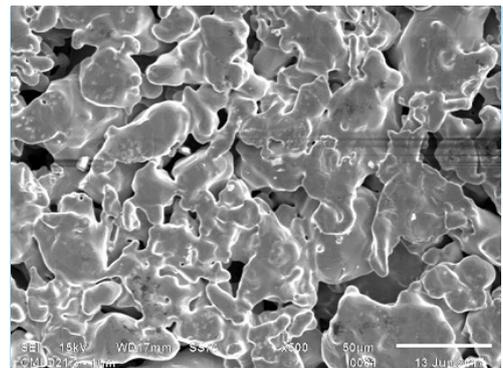
Description

CMI manufactures sintered metal powder filter cartridges in a wide range of materials, sizes and connections to meet the characteristics and configurations that customers need. Sintered porous metal filters are manufactured from isostatic cool pressing and high temperature vacuum sintering. The micron rating and distribution of the pores can be controlled by the metal powder. They are ideal choice for process filtration applications where high strength and excellent corrosion and temperature resistance are required.



Features

- Precise pore size distributions
- High fluid flow permeability
- Easily cleaned/back-flushed
- Corrosion/abrasion resistant
- High temperature resistance, up to 900 °C
- High strength and dimensional stability
- No media migration and second pollution



Data & Specifications:

- Length: <1600mm
- Outside Diameter(OD): 4mm-450mm
- Media Grade: 0.3-100 µm
- Note: Special material, sizes and shape can be customized

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CMI Sintered Porous Coating Membrane Filter

HIGH POROUS AND ASYMMETRICALLY

Description

CMI sintered porous coating membrane filter is a membrane filtration product with excellent filtration effect and high permeability.

The asymmetric sintered metal powder filter contains a filter layer and a support layer. A 0.3mm thick metal film filter medium is attached to the outer surface of a porous metal film, which forms the product as a highly porous and asymmetrically filter.

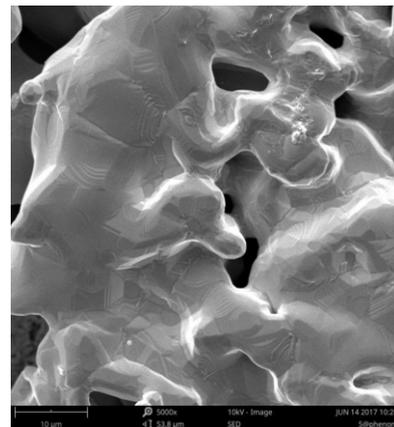
The filter layer can reach 0.1 micron grade.

Its surface filtration characteristic brings good filtration retention in lower micron range.



Features

- Surface filtration
- Low pressure drop
- High filtration precision to 0.1 μm
- High fluid flow permeability
- Easily cleaned/back-flushed
- Corrosion/abrasion resistant
- High temperature resistance, up to 900°C
- High strength and dimensional stability
- No media migration and second pollution



Data & Specifications

- Length (without welding): <1500mm
- Outside Diameter(OD): 56mm-64mm
- Media Grade: 0.1-3 μm
- Note: Special material, sizes and shape can be customized

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CMI Double Layer Sintered Porous Metal Filter

TWO-LAYER STRUCTURE

Description

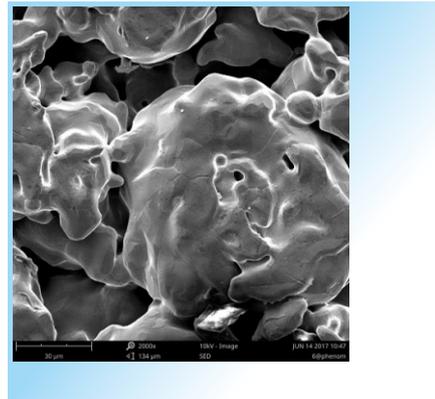
CMI double layer sintered porous metal filter have a two-layer structure. The gradient distribution of the pore size can be achieved by using a single molding process with powders of different particles sizes. The double-layer structure plays the role of supporting and filtering at same time. The gradient pore structure has better permeability than conventional products. Pressure drop can also be reduced by this kind of structure.

Double layer sintered porous metal filter is a new solution for cross-flow filtration in chemical and pharmaceutical industries.



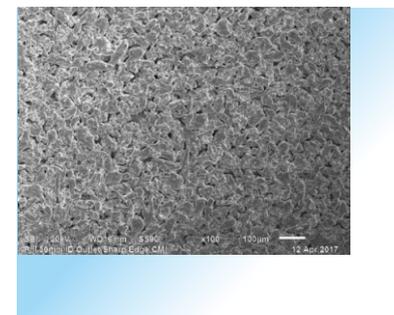
Features

- Interchangeable grade
- Gradient distribution of pore size
- Better permeability
- Easily cleaned/back-flushed
- Corrosion/abrasion resistant
- High temperature resistance, up to 900°C
- No media migration and second pollution



Data & Specifications

- Length (without welding): 400mm-1000mm
- Outside Diameter(OD): 12.5mm-70mm
- Media Grade: 0.5-1 µm
- Note: Special material, sizes and shape can be customized



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CMI Sintered Metal Powder Sheet and Discs

VARIOUS SIZES AND SHAPES

Description

CMI manufactures sintered metal powder sheets and sintered metal powder discs in a wide range of materials and sizes to meet the characteristics and configurations that customers need.

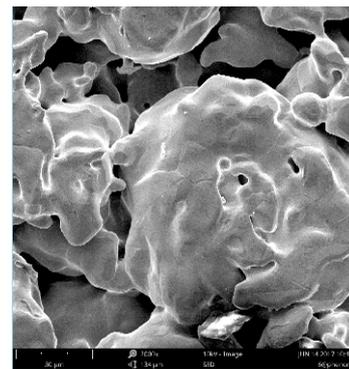
Sintered porous metal discs and sintered porous metal sheets are manufactured from isostatic cool pressing and high temperature vacuum sintering. The micron rating and distribution of the pores can be controlled by the metal powder.

Precision-cast molds and precise pressure control keep product dimensional tolerance even smaller to meet the needs of a wide range of application.



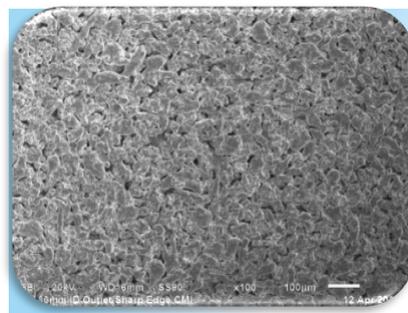
Features

- Precise dimension
- Multiple specifications
- Irregular parts are available
- Better permeability
- Easily cleaned/back-flushed
- Corrosion/abrasion resistant
- High temperature resistance, up to 900
- No media migration and second pollution



Data & Specifications

- Outside Diameter(OD): 4mm-400mm
- Min. Thickness: 1mm
- Media Grade: 0.3-100 μm
- Note: Special material, sizes and shape can be customized



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Product Material / Applications

Product Material

Stainless Steel (SS316L, 304L, 310S, 904L)

Titanium

Hastelloy (C-22, C-276, XB-2)

Inconel (600, 625, 800)

Monel (400 and so on)

Nikel

Applications

Petrochemical Industry

Decarbonization filtration and precision filtration of liquid products, liquid raw materials and pharmaceutical intermediates in chemical industry
Filtration and recovery of ultrafine crystals and catalysts
Precise filtration after resin adsorption and impurity removal
filtration of heat conducting oil and materials
Field return water filtration

Water treatment Industry

Security filtration of ultrafiltration, RO and EDI systems in water treatment industry, filtration after ozone sterilization, and before canning
Security filtration before reverse osmosis in seawater desalination field

Pharmaceutical Industry

Decarbonization filtration of large infusion, small injection and concentrated oral liquid and security filtration before terminal filtration of dilute liquid
Impurity removal and filtration in the production process of bulk medicine, decarbonization and fine filtration of materials

Food Industry

Clarification and filtration of beverage, fruit juice, liquor, beer, mineral water, soy sauce and vinegar

In all of these industrial above

Material interception and filtration in vacuum feeding system
(titanium filter element can prevent powder material leakage and environmental pollution)
Gas purifications of steam, compressed air, catalytic gas filtration

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