



Sintered Porous Candle Filter

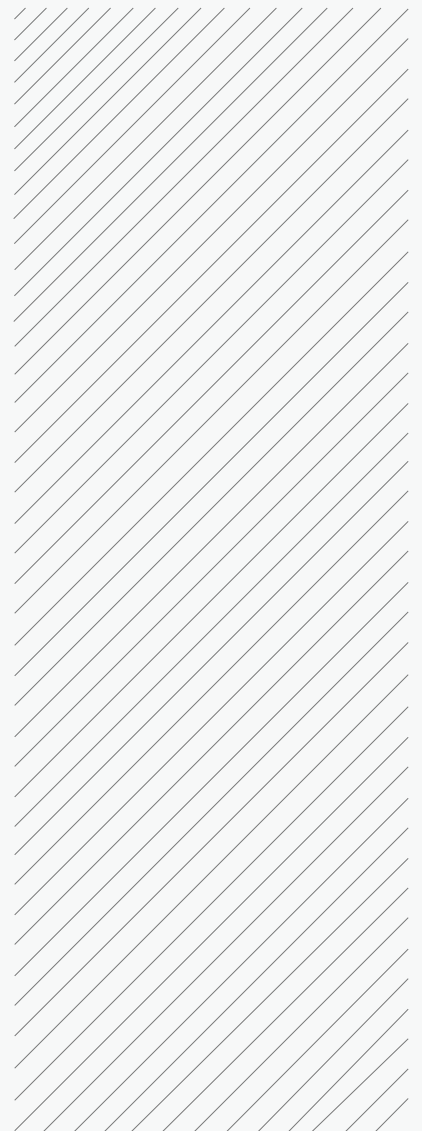
Weave Impossible to Possible



BOEDON Industech Limited

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BOEDON Brochure



We can offer **sintered porous candle filter** with good air permeability and stable separation effect to meet your **chemical filtration** demands.

Sintered porous candle filter, also known as sintered powder candle filter, is made of sintered metal powder after pressing, forming and high temperature sintering, featuring stable shape, good air permeability and great separation effect.

The pore size, distribution, strength and air permeability of the sintered porous candle filter depends on the powder fineness, compacting and sintering processes. Our sintered porous candle filter achieves a filter rating of 0.1–100 μm .

The most commonly used sintered metal materials are stainless steel and bronze. In addition, titanium, nickel, Monel and other materials are available upon request.

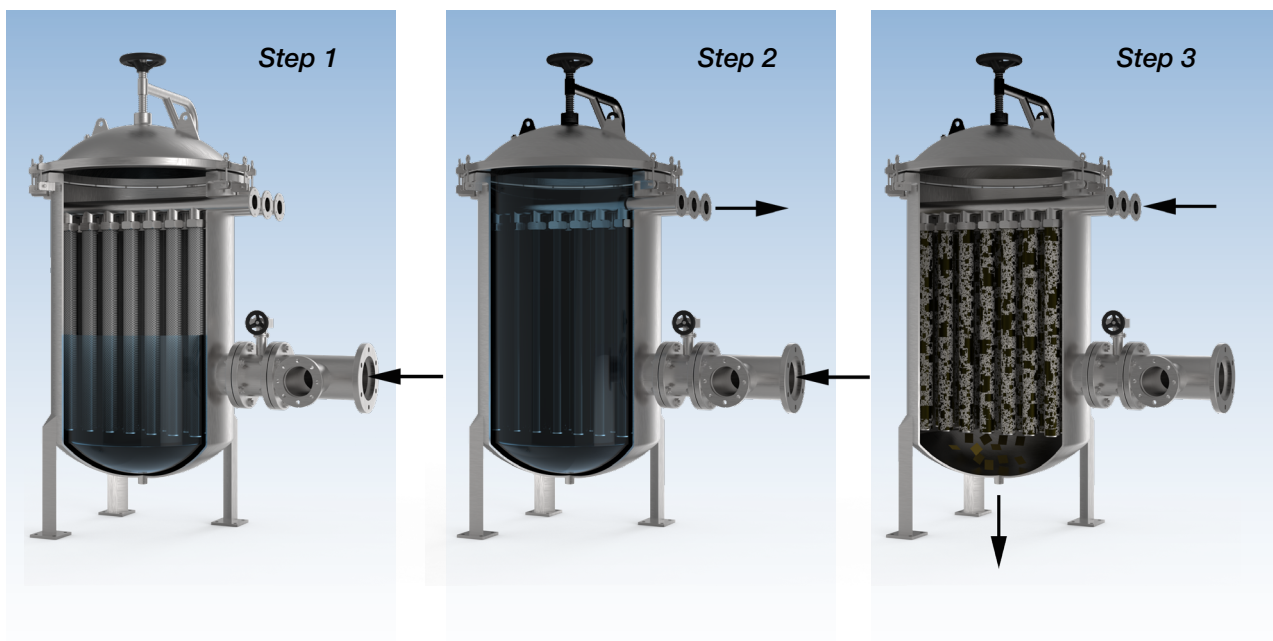
Sintered Porous Candle Filter



SINTERED POROUS CANDLE FILTER

Working Principle

The filtrate enters at the bottom of the filter and moves upward, which helps to keep the solids in suspension so that they are evenly deposited on the surface of the filter elements. Impurities are retained on the surface of filter elements, and clean filtrate is discharged from the filter through the register. When the filter reaches the set pressure value, the control system stops feeding and the residue liquid in the filter is drained out. The backblowing begins. When the backblowing is finished, the dry cake is discharged from residue discharge nozzle. Close the residue discharge nozzle when the dry cake discharging is finished. The surface of the filter elements is clean and ready for the next round of filtration.



SINTERED POROUS CANDLE FILTER

Connector Type

Compared with polymer melt filtration, chemical filtration requires low temperature and low pressure. So, sintered porous candle filter has a diversity of connection types. Connection types are customized upon request.

- ▶ Standard connection (such as, 215, 222, 226)
- ▶ Thread connection (M20, M30, M32, M42, etc.)
- ▶ DOE
- ▶ Customized connection



SINTERED POROUS CANDLE FILTER

Specification

Material: stainless steel (304, 316L, etc.), bronze, nickel, Monel, etc.

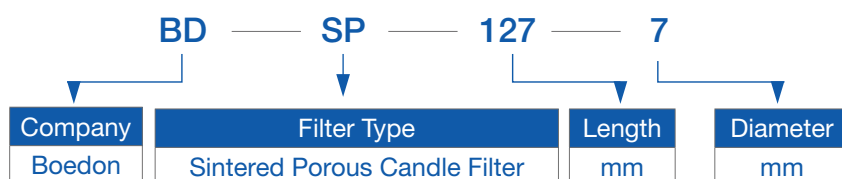
Max. operating temperature: 500 °C

Filter rating: 0.1–100 µm

Porosity: 30%–40%

Compressive strength: 3 MPa

Max. differential pressure: 0.6 MPa



Popular Specifications of Sintered Porous Candle Filter

Model	Size				Filter Area	
	Length		Diameter		ft ²	m ²
	inch	mm	inch	mm		
BD-SP-127-7	5	127	2.76	70	0.32	0.03
BD-SP-254-7	10	254	2.76	70	0.64	0.06
BD-SP-508-7	20	508	2.76	70	1.17	0.11
BD-SP-762-7	30	762	2.76	70	1.82	0.17
BD-SP-1016-7	40	1016	2.76	70	2.35	0.22

Notes:

- 65 mm, 80 mm, 110 mm and other diameter sizes are available upon request
- Length can also be customized upon request.

SINTERED POROUS CANDLE FILTER

Features & Application

Features

- Uniform pore sizes, suitable for fluid distribution and other applications requiring high uniformity
- Good air permeability low pressure loss, great separation effect
- High filter rating, effectively suspended solids and particles removal, great purification effect
- No particle shedding, avoiding the secondary pollution of reed solution
- Good mechanical strength, great rigidity and plasticity
- Excellent resistant to high temperatures, high pressures and corrosion

Application



Chemical

- Liquid products and liquid raw material filtration in chemical industry
- High temperature and highly corrosive substances filtration in chemical industry



Pharmaceutical

- Ultrafine crystal and catalyst filtration and recovery
- Material decarbonization filtration and fine filtration



Metallurgy

- High temperature fuel gas purification
- Petroleum, thermal power generation and other high temperature fuel gas dust removal applications



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