

Silicon Carbide Filters



Silicon Carbide Bonded Particle Filter is a new type of molten metal filter for the aluminium die casting. It uses high-quality silicon carbide as the main raw material. It has the advantages of high filtration precision and good thermal shock resistance.

Model:

According to the requirements of filtration accuracy, there are 8 types of pore diameter products: A, B, C, D, 06, 08, 10, 12.

Features:

- The pore diameter is uniform and the filtering effect is good.
- Good thermal shock resistance, short warm-up time during use.
- High strength, no slag and no breakage during use.

Performance Comparison Table:

Item	SEFU	Other Company	Ceramic Foam Filter
Main Component	SiC	SiC	Al ₂ O ₃
Average Porosity (%)	45	40-42	70-90
Porosity Diameter (um)	200-800	350-1600	250-3000
Maximum Heating Temperature (°C)	1100	890	1000
Maximum Working Temperature (°C)	1000	810	730
Density (g/cm ³)	1.8-1.9	2.2-2.3	0.45-0.65
Strength (kg/cm ²)	30	31	1.2
Thermal Expansion Coefficient (*10-7mm/°C)	35	40	80
Thermal Conductivity (W/(m*K))	240	230	30
Heating Time at 800°C (min)	10	240-300	20-30

Cartridge Filter



Tubular filtration technology is widely used by global aluminum product companies in the melting and casting production of high-end aluminum products such as high-end aluminum foil, can materials, printing plates, photosensitive drums, electronic profiles, traffic profiles, and aviation components.

Model: A, B, C, D.

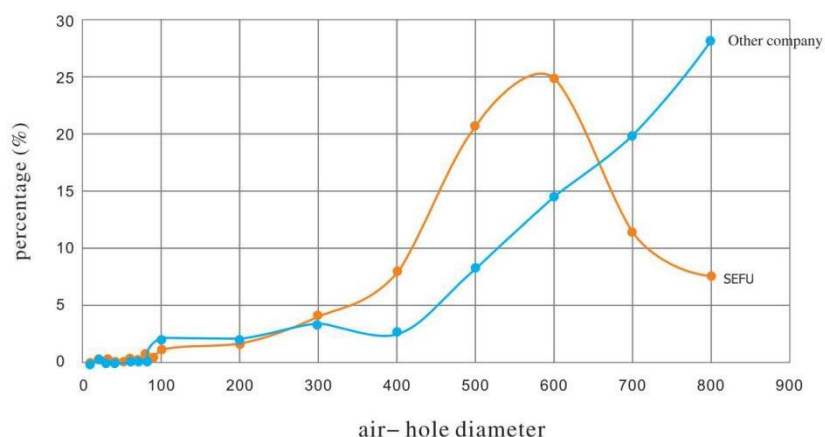
Different types of pipe fittings can be assembled for each pipe group according to customer needs.

Specifications:

Type	Filtration Area (ft ²)	Max Flow (t/h)	Estimated Capacity for Aluminum Liquid (ton)
7 pcs/unit	21	7	350-400
9 pcs/unit	27	8	450-550
11 pcs/unit	33	11	550-650
14 pcs/unit	42	13.5	700-850
18 pcs/unit	54	20	900-1100
22 pcs/unit	66	24	1100-1300
28 pcs/unit	84	31	1400-1700

Note: The maximum flow and estimated production capacity are data for D-type products. Under the same conditions, the values of A, B, and C models will be higher.

Model B Stomatal Distribution Detection:



Vertical Gate Filter



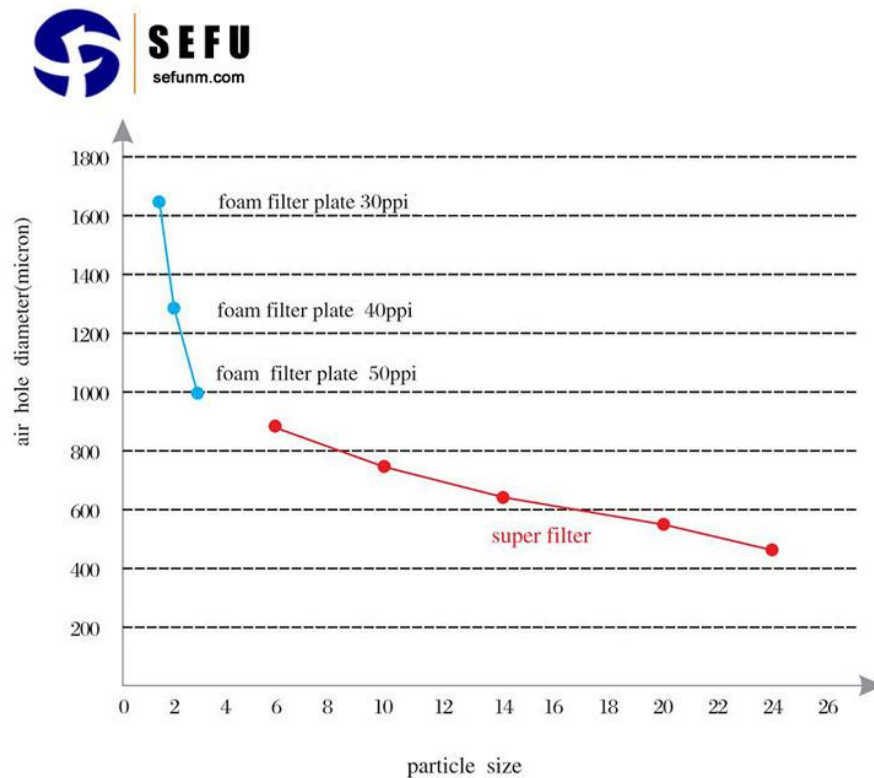
The board silicon carbide filter is suitable for industries with low flow rate but high precision requirements for molten aluminum, such as high-pressure aluminum casting.

It has the advantages of high strength, acid and alkali corrosion resistance, and fast water flow. It is also used in water treatment industry.

Models: 06, 08, 10, and 12.

Product size can be customized according to customer needs.

Compared with the pore size of ceramic foam filter:



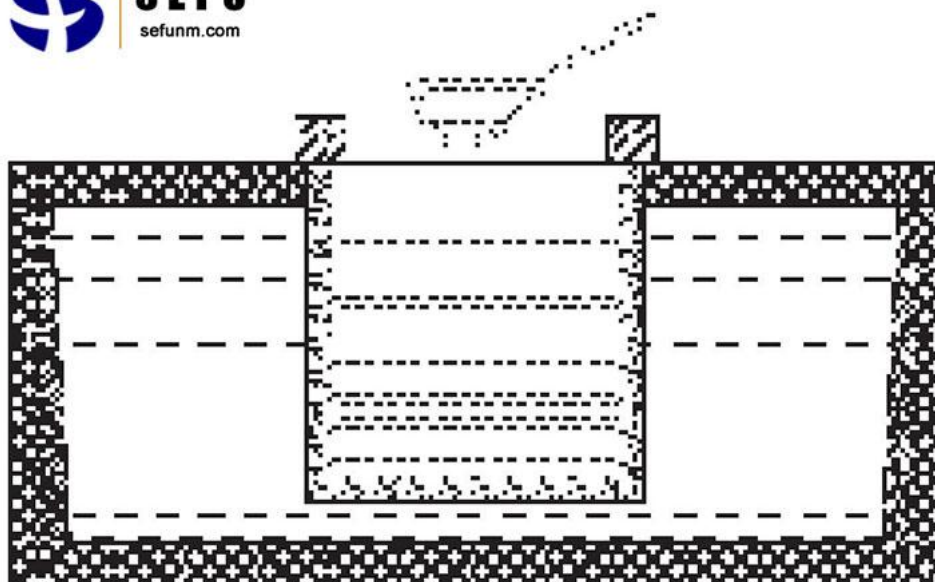
Box Filters



Box filter is a new type of molten metal filter for aluminum refining industry. It has the advantages of high filtration precision, large filtration capacity per unit time, convenient installation and use, etc.

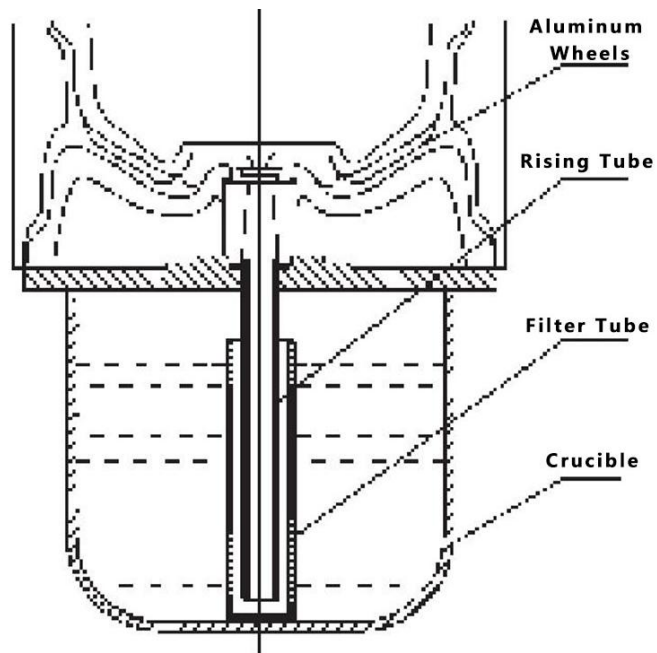
According to the requirements of filtration accuracy, there are four types: 06, 08, 10, 12.

The length, width, and height of the box can be customized according to customer requirements.



Operation diagram

Stalk Tube Filters



Operation diagram

The filter tube has a large filtering area and a fast filtering speed. It is mainly used in the aluminum wheel casting industry and can meet the requirements of rapid prototyping of wheel casting. Compared with the alumina ceramic foam filter, the filter tube has higher filtration precision, which can significantly improve product quality.