

Alumina Ceramic Foam Filter



The quality of the aluminum melt is very important, it affects the subsequent processing performance and the quality of the final product to a great extent. Therefore, various countries in the world attach great importance to the purification of aluminum molten. There are many reasons for the aluminum molten pollution, on the one hand, in the process of smelting, aluminum exposed to molten or partially molten state to the furnace atmosphere, liable to oxidation, easy to react with water vapor and absorb hydrogen, easy to form various forms of non-metallic slag (such as furnace lining pieces and flux of chloride, carbide, etc.) and bulky intermetallic compound particles, and so on. On the other hand, part of the waste material in the composition charge is carried with some non-aluminum impurities in the circulation process. As the waste comes from the factory's process waste and waste and off-site waste, so the path is different, the composition is complex, the quality is poor. These impurities often cause bubbles and inclusions in the billet, which seriously affect the purity of the metal melt, thus further affecting the machining property, mechanical property, corrosion resistance and appearance quality of the product.

The alumina ceramic foam filter supplied by our company can effectively remove all kinds of inclusions with fineness up to micron level in aluminum water, making aluminum water into a smooth laminar flow, which is beneficial to mold filling. It has good mechanical strength and chemical stability, superior resistance to aluminum water erosion performance. A stable filtration effect can be obtained by strictly controlling hole size and porosity.

Feature:

- *High strength, no slag, good thermal shock resistance.
- *High porosity, excellent filtration result.
- *Sizes complete, 7 inch to 26 inch, 10PPI to 70PPI.
- *Sealing gasket: fiber paper, fiber cotton and expandable cotton.

1、Use effect:

- 1.Increase extrusion productivity
- 2.Extend the life of the die and reduce the number of die repairs.
- 3.Reduced extrusion pressure
- 4.The surface quality of the aluminum section was improved significantly.

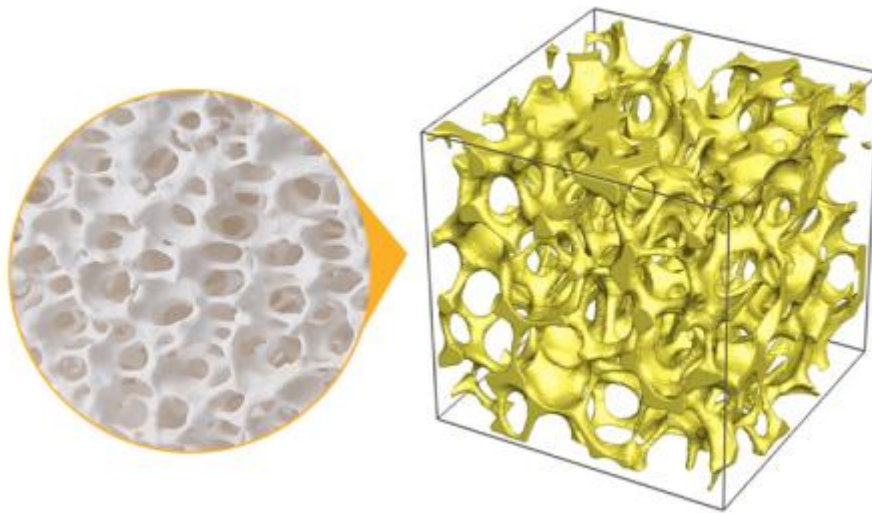
2、Alumina ceramic foam filter technical data

Item	Index
Porosity(%)	80~90%
Working Temperature	≤1100°C
Bending Strength(Mpa)	0.6
Compression Strength(Mpa)	0.8
Thermal Shock Resistance	1100°C---room temperature 6 times
Volume Density	0.35-0.45 g/cm3

3、Alumina ceramic foam filter filtration capacity

Size (mm)	Flow Rate (kg/s)	Capacity (kg)
30*50*22	5	90
40*40*22	5	96
50*50*22	7	150
75*50*22	10	225
100*50*22	13	300
75*75*22	15	338
100*75*22	20	450
100*100*22	26	600
150*100*22	40	900
150*150*22	60	1350
200*200*40	100	2400
Φ 40*11	5	75
Φ 50*22	6	118
Φ 60*22	8	170
Φ 70*22	10	231

Φ 80*22	12	301
Φ 90*22	16	382
Φ 100*22	18	471
Φ 150*22	40	1060
Φ 200*30	70	1884



10P/20P/30P/40P/50P/60P

Ceramic Foam Filter Application

Cangzhou Sefu Ceramic New Materials Co., LTD.

