

# Jiangxi Jintai Special Material Co., Ltd.



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## Alumina Ceramic Foam Filter (CFF-AL)

Alumina Ceramic Foam Filters mainly for filtration of aluminium and aluminium alloys in foundries and cast houses. With their excellent resistance to attack and corrosion from molten aluminum, they can effectively remove inclusions, reduce trapped gas and provide laminar flow, and then the filtered metal is significantly cleaner. Cleaner metal results in higher-quality castings, less scrap, and fewer inclusion defects, all of which contribute to bottom-line profit.



### Alumina Ceramic Foam Filters(CFF-AL) Common Size:

JINTAI CFF-AL is available in all common sizes: 7", 9", 12", 15", 17", 20", and 23". JINTAI offers the whole range of porosities from PPI 10 up to PPI 60 (PPI = pores per inch).

Custom-made cut-to-size filters are also possible.

### Alumina Ceramic Foam Filters(CFF-AL) Gasketing:

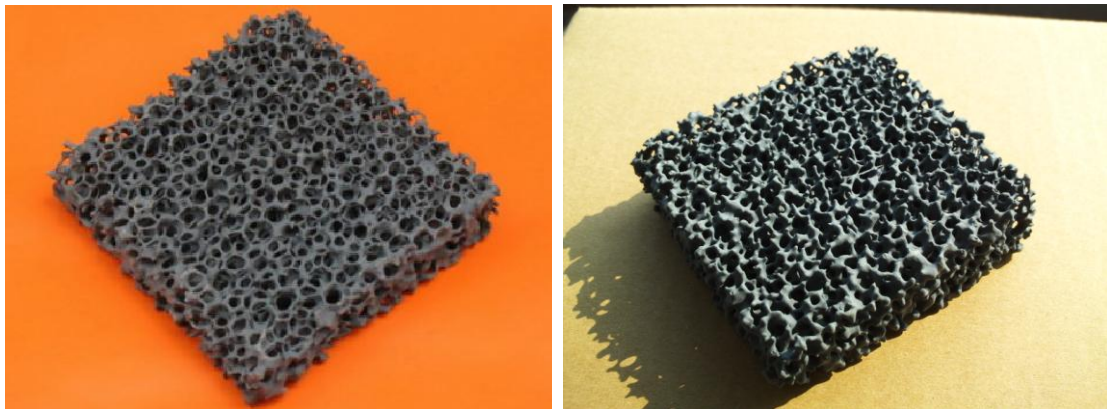
CFF-AL is equipped with a gasket on the edges. The gasket assures the proper and tight position of the filter within the filter box. There are different types of gasket available, eg. ceramic fibre gasket etc. Also you can choose CFF-AL without gasket.

### Chemical Composition for Alumina Ceramic Foam Filters(CFF-AL):

Al <sub>2</sub> O <sub>3</sub>	SiC	SiO <sub>2</sub>	ZrO <sub>2</sub>	Others
80~82%	---	5~6%	---	12~15%

## SiC Ceramic Foam Filter (CFF-SC)

Silicon Carbide Ceramic Foam Filters mainly for filtration of cast iron and non-ferrous alloys. With their excellent resistance to attack and corrosion from molten iron liquid, they can effectively remove inclusions, reduce trapped gas from liquid metal and provide laminar flow, and then the filtered metal is significantly cleaner. Cleaner metal results in higher-quality castings, less scrap, and fewer inclusion defects, all of which contribute to bottom-line profit.



JINTAI SiC Ceramic Foam Filters(CFF-SC) is available in all standard dimensions and different thickness. The most common porosities are PPI 10, 20 and 30; higher porosities are available upon request. Custom-made cut-to-size filters are also possible.

### JINTAI SiC Ceramic Foam Filters(CFF-SC) common sizes in Round shape:

40x11mm, 40x15mm, 50x15mm, 50x20mm, 60x22mm,  
70x22mm, 80x22mm , 90x22mm,100x22mm, 305x25mm

### JINTAI SiC Ceramic Foam Filters(CFF-SC) common sizes in Square shape:

40x40x11mm, 40x40x15mm, 50x50x22mm, 75x75x22mm, 50x75x22mm,  
100x75x22mm, 100x100x22mm, 55x55x15mm, 150x150x22mm

### Chemical Composition for SiC Ceramic Foam Filters(CFF-SC):

Al <sub>2</sub> O <sub>3</sub>	SiC	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>
≤28.00%	≥62.00%	≤10.00%	≤0.50%

## Zirconia Ceramic Foam Filter (CFF-ZR)

Zirconia Ceramic Foam Filters are used for molten all types of steel like unalloyed, low alloyed, stainless and high-alloyed as well as Nickel and Cobalt-based super-alloys. With their excellent resistance to attack and corrosion from molten steel liquid, they can effectively remove inclusions, reduce trapped gas from liquid metal and provide laminar flow, and then the filtered metal is significantly cleaner. Cleaner metal results in higher-quality castings, less scrap, and fewer inclusion defects, all of which contribute to bottom-line profit.



JINTAI Zirconia Ceramic Foam Filters(CFF-ZR) is available in all common sizes in the range of 40x40x20mm up to 150x150x30mm. Round filters are available from D40x20mm up to D150x30mm. Although PPI 10 is the porosity most commonly used for steel casting, finer porosities up to PPI 60 are available on request. Custom-made cut-to-size filters are also possible.

### JINTAI Zirconia Ceramic Foam Filters(CFF-ZR) common sizes in Square shape:

50x15mm, 50x20mm, 50x25mm, 60x15mm, 70x15mm, 70x25mm, 90x25mm, 100x25mm,

### JINTAI Zirconia Ceramic Foam Filters(CFF-ZR) common sizes in Square shape:

50x50x15mm, 50x50x20mm, 75x75x25mm, 100x100x25mm

### Chemical Composition for Zirconia Ceramic Foam Filters(CFF-ZR):

Al <sub>2</sub> O <sub>3</sub>	MgO	SiO <sub>2</sub>	ZrO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>
≤1.8%	≥3.0%	≤0.5%	≥ 94.00%	≤0.10%

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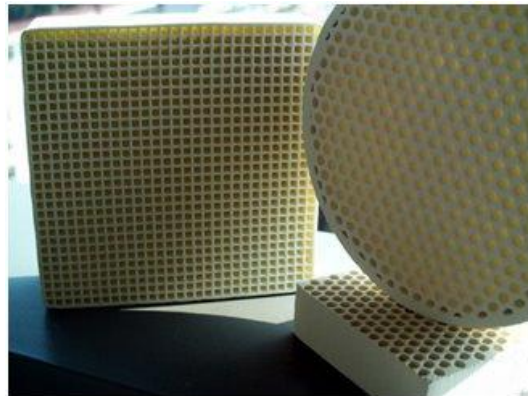
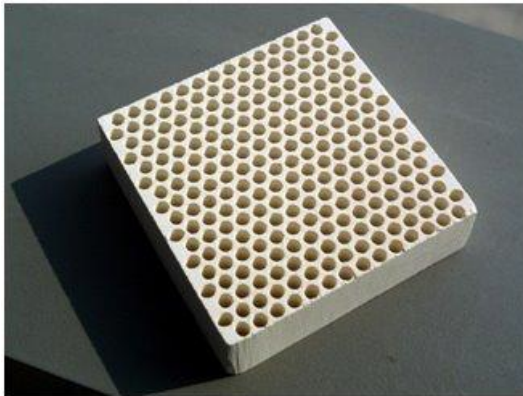
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## Honeycomb Ceramic Foundry Filter (JTEF)

Also can be called Extruded Ceramic Filters or Molten Metal Cellular Filters, are widely used as molten metal filtration in metallurgical and foundry industries. This product has the characters of excellent resistance to thermal shock, high strength, high porosity and specific surface area. With its unique straight channel honeycomb designs, it can increase the specific surface area between molten metal and ceramic filter, thereby to improve its adsorpting and capturing tiny impurities ability, so as to get ride of non-metal impurity and gas, make the metal liquid steady, purify metal liquid. It can not only reduce casting cost, but also improve casting quality.



**Material:** Cordierite, Mullite, Corundum-Mullite, etc.

**Application:** Grey iron, Ductile iron, Aluminum alloy, Stainless steel, Copper Foundry

**Specifications (mm):**

40x40x12, 50x50x12, 55x55x12, 66x66x12, 75x75x12, 82x82x13, 100x100x15, 132x132x20, etc.

**Hole type:** Square, Round, Triangle