

**FILTEC**

**Our products include:**

- ★CF200 Alumina Ceramic Foam Filters for aluminum filtration and aluminum casting.
- ★CF400 Silicon Carbide Ceramic Foam Filters for iron and iron alloy casting.
- ★CF600 Zirconia Ceramic Foam Filters for casting steel and stainless steel filtration.
- ★EC85 Series Ceramic Core for investment casting.
- ★HC Honeycomb and Lotus filter.
- ★PC Series Pouring Cup, Insulating / Exothermic Sleeve
- ★Ceramic Consumable Parts available per on order.
- ★Other foundry materials.



web: [www.filtec-corp.com](http://www.filtec-corp.com)

**Corporate Headquarter**

Shangxi Industrial Park, Jiujiang Town, Nanhai District  
Foshan City, Guangdong Province, P.R. China, Post Code: 528000  
Tel : 0086-757-82665339/82667098  
Fax : 0086-757-82667102

**North America Sales & Service Office**

37 Village View Rd, Westford, MA 01886, U.S.A.  
Tel: 978 204 2288; Fax: 978 268 5162  
email: [sales@filtec-corp.com](mailto:sales@filtec-corp.com)  
web: [www.filtec-corp.com](http://www.filtec-corp.com)

**FILTEC PRECISION CERAMICS CO., LTD.**  
**佛山市非特新材料有限公司**

**Corporate Headquarter**  
Shangxi Industrial Park, Jiujiang Town, Nanhai District  
Foshan City, Guangdong Province, P.R. China, Post Code: 528000  
Tel : 0086-757-82665339/82667098  
Fax : 0086-757-82667102  
**North America Sales & Service Office**  
37 Village View Rd, Westford, MA 01886, U.S.A.  
Tel: 978 204 2288; Fax: 978 268 5162  
email: [sales@filtec-corp.com](mailto:sales@filtec-corp.com)  
web: [www.filtec-corp.com](http://www.filtec-corp.com)







COMPANY

INTRODUCTION

## Company Introductions

FILTEC PRECISION CERAMICS CO., LTD. (FILTEC) is specialized in developing and manufacturing consumable ceramics and refractory products for foundry industry, metallurgical industry, etc. Our main products include ceramic foam filters in various materials, Honeycomb filters, and ceramic core for investment casting, etc.

As an ISO-9001 certified enterprise, FILTEC focus on producing ceramic consumables in consistent quality and continuous technology improvement. Through our worldwide distribution channels, our products have been exported to more than 20 countries with excellent performance.

Basing on 20 years experience in ceramic product's R&D and manufacturing, FILTEC's research scientists and engineers have always been dedicating to the product performance enhancement, superior professional service, as well as customer satisfaction. Our ceramic products enable better quality, cleaner metal and yield improvements for investment casters and foundries worldwide

Our vision is to compete with the best products on the market, provide our customers with even better products at lower cost, and promote better solutions with excellent results.

### Our products include:

- ★CF200 Alumina Ceramic Foam Filters for aluminum filtration and aluminum casting.
- ★CF400 Silicon Carbide Ceramic Foam Filters for iron and iron alloy casting.
- ★CF600 Zirconia Ceramic Foam Filters for casting steel and stainless steel filtration.
- ★EC85 Series Ceramic Core for investment casting.
- ★HC Honeycomb and Lotus filter.
- ★PC Series Pouring Cup, Insulating / Exothermic Sleeve
- ★Ceramic Consumable Parts available per on order.
- ★Other foundry materials.

## 主要产品 Products





# FILTEC® CF200 Ceramic Foam Filter For Aluminum Foundries

FILTEC® CF200 Ceramic Foam Filter is a phosphate-free, high alumina-based product, It is characterized by high porosity and mechanochemical stability and excellent resistance to thermal shock and corrosion from molten aluminum, It can effectively remove inclusions, reduce trapped gas and provide laminar flow when molten aluminum filtrated, it is machined to tight dimensional tolerance during production, this combination of physical properties and precise tolerance make them first choice for molten non-ferrous filtration.

FILTEC® CF200 Ceramic Foam Filters are widely used for molten aluminum filtration in primary and secondary aluminum foundries, they are also applied as media in gas-liquid and liquid-solid separation engineering.

FILTEC® CF200 Ceramic Foam Filter is supplied with soft/hard gasket to prevent Liquid metal bypass, it is available in dimension of 40-600mm with pore size from 10-40ppi. Special size is also available on order.



## Specification:

Porosity	75-85%
Compression Strength	*1.0Mpa
Bulk Density	*0.5g/cm <sup>3</sup>
Thermal Resistance	800°C~R.T* 5 times

## Size and Tolerance:

No	Size*mm	Size*inch	Tolerance*mm		
			Length/width	Thickness	Bending
1	100*100*22	-	0/-3	0/-2	2
2	150*150*22	-	0/-3	0/-2	2
3	200*200*22	-	0/-3	0/-2	2
4	178*178*50	7"*7"*2"	*3	*3	3
5	229*229*50	9"*9"*2"	*3	*3	3
6	305*305*50	12"*12"*2"	*4	*3	3
7	381*381*50	15"*15"*2"	*4	*3	3
8	432*432*50	17"*17"*2"	*5	*3	3
9	508*508*50	20"*20"*2"	*5	*3	3
10	584*584*50	23"*23"*2"	*5	*3	3
Note	Special size is available per order.				

Package: Paper tray +Carton box/Pallet.

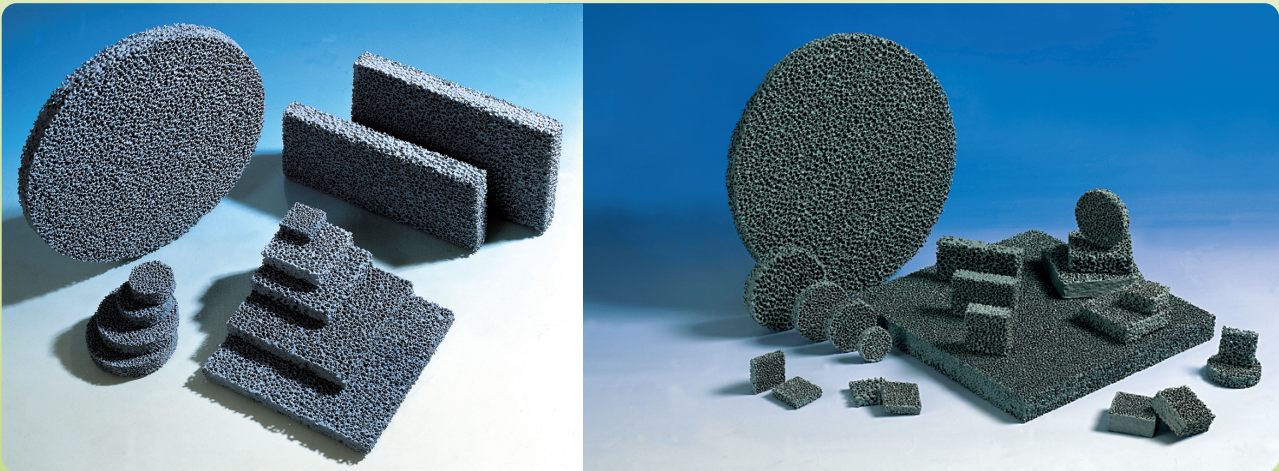
North America Sales & Service Office 37 Village View Rd, Westford, MA 01886, U.S.A.

Tel: 978 204 2288; Fax: 978 268 5162 email: sales@filtec-corp.com web: www.filtec-corp.com

# FILTEC® CF400 Ceramic Foam Filter For Iron Foundries

FILTEC® CF400 Ceramic Foam Filter is a silicon carbide-based product, it is made by unique technology at iso-9001 certified plant. It is characterized by high porosity and mechanochemical stability and excellent resistance to thermal attack and corrosion from molten iron liquid, It can effectively remove inclusions, reduce trapped gas from liquid metal and provide laminar flow when applied as filter in gating system. They are machined to tight dimensional tolerance during production, this combination of physical properties and precise tolerance make them first choice for both grey and ductile iron casting.

FILTEC® CF400 Ceramic Foam Filters are widely used for liquid iron and its alloy's filtration in ferrous foundries, they are also applied in liquid copper and aluminium filtration.



## Specification:

Porosity	75-85%
Compression Strength	*1.0Mpa
Bulk Density	*0.65g/cm <sup>3</sup>
Thermal Resistance	1300°C~R.T* 5 times

## Size and Packing list:

Size (mm)	Pc/box(pc)	Size (mm)	Pc/box(pc)	Size (mm)	Pc/box(pc)
Dia.40*11	2000	Dia.90*22	224	66*66*22	512
Dia.40*15	1500	Dia.100*22	179	75*75*22	312
Dia.40*22	1000	40*40*11	2000	75*100*22	228
Dia.50*13	1350	40*40*15	1500	90*90*22	224
Dia.50*15	1200	40*40*22	1000	100*100*22	179
Dia.50*22	800	50*50*13	1350	100*150*22	105
Dia.60*15	800	50*50*15	1200	150*150*22	70
Dia.60*22	560	50*50*22	800	200*200*30	32
Dia.70*15	522	50*75*22	520	30*50*22	1280
Dia.70*22	383	50*100*22	380		
Dia.80*22	300	55*55*15	880		

Package: Paper tray+ carton box/Pallet

North America Sales & Service Office 37 Village View Rd, Westford, MA 01886, U.S.A.

Tel: 978 204 2288; Fax: 978 268 5162 email: sales@filtec-corp.com web: www.filtec-corp.com



# FILTEC® CF600 Ceramic Foam Filter For Steel Foundries

FILTEC® CF600 Ceramic Foam Filter is a Mg-stabilized zirconia product, it is made by imported raw materials and unique technology. FILTEC® CF600 ceramic foam filters are characterized by high porosity and mechanochemical stability and excellent resistance to thermal attack and corrosion from molten steel liquid, they can effectively remove inclusions, reduce trapped gas from liquid metal and provide laminar flow when applied as filter in gating system. They are machined to tight dimensional tolerance during production, this combination of physical properties and tolerance make them first choice for all types steel foundries.

FILTEC® CF600 Ceramic Foam Filters are widely used for molten steel and its alloy's filtration in steel foundries, they are also applied as fuel distributor in burner assembly and absorbing media in high-temperature waste-gas decontamination engineering.



## Specification:

Porosity	70-80%
Compression Strength	*1.5Mpa
Bulk Density	*1.3g/cm <sup>3</sup>
Thermal Resistance	1350°C~R.T* 3times

## Size and Packing list:

Size (mm)	Pc/box(pc)	Size (mm)	Pc/box(pc)
Dia.50*15	660	Dia.100*25	128
Dia.50*20	510	Dia.70*15	380
Dia.50*25	390	50*50*15	660
Dia.60*15	598	50*50*20	510
Dia.70*25	228	75*75*25	200
Dia.90*25	152	100*100*25	128

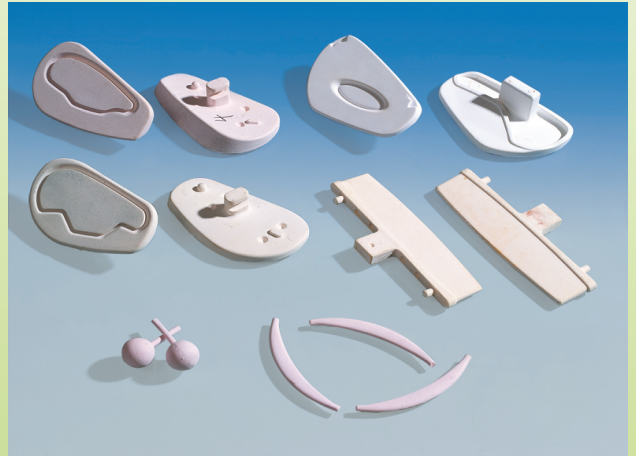
Package: Paper tray + carton box/Pallet



# FILTEC® EC85 Ceramic Core for Investment Casting

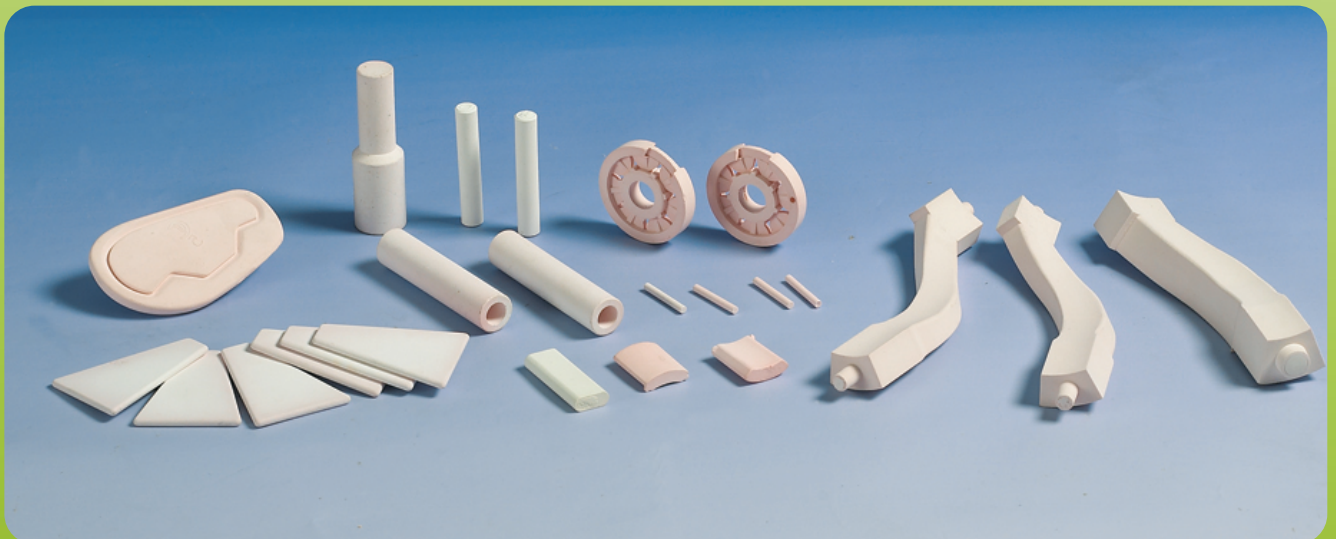
FILTEC® EC85 Ceramic Core is a high silica product with intermediate particle size distribution, it is made by unique technology at iso-9001 certified plant. With excellent high temperature stability and core leachability, FILTEC® EC85 Ceramic Core is widely used for castings with open and blind passages.

FILTEC® EC85 ceramic core is characterized by high strength and refractoriness and superior thermal stability, that enable EC85 ceramic core can bear attack from wax injection and big thermal shock. It is machined to accurate dimension during production, this combination of physical properties and dimensional precision make them first choice for all investment castings.



Specification of EC85 Ceramic cores:

- 1) High strength to bear attack from wax injection and other processing.
- 2) Enough refractoriness, it is suitable for both iron and steel casting.
- 3) No reaction with metal liquid in high temperature due to chemical stability.
- 4) Low expanding coefficient
- 5) Accurate dimension, tolerance in 0.10"/inch.
- 6) It is idea tool to solve any cavity with complicated shape in casting.



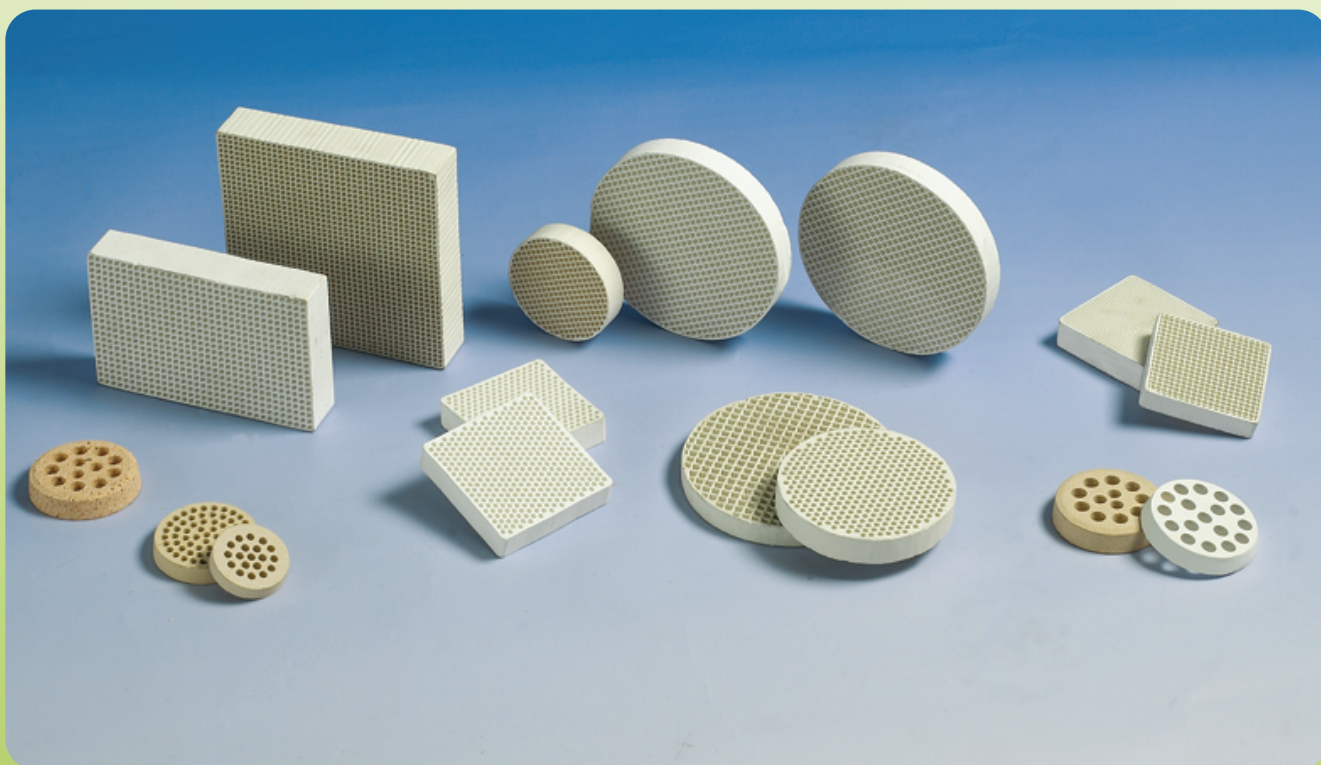


## FILTEC® HC Ceramic Filter for Molten Metal Casting

FILTEC® HC Extruded/Pressed Ceramic Filter is a cordierite-mullite-based product, it is made by unique technology. The filter is characterized by precise dimension and high mechanical strength and excellent resistance to thermal attack and corrosion from molten metal liquid.

When HC ceramic filter applied, it can remove slag and non-metallic inclusions from iron liquid, it also reduces the risk of inclusions in casting ,thereby improving the surface finish and machinability of the finished castings.

FILTEC® HC Extruded/Pressed Ceramic Filter is widely used for molten metal together with or without ceramic foam filter.



### Specification:

Type	HC
Thermal Expansion Coefficient (1000*)	$5.4 \times 10^{-6}/^{\circ}\text{C}$
Compression strength(veritcal to hole wall)	*2.0MPa
Compression strength( Horizontal to hole wall)	*20MPa
Refractoriness	*1700°C
Alumina	*46%