



**PATRONAGE**  
FILTEx INDIA PVT LTD  
Bringing Into Being





## Profile

Patronage Filtex India Pvt. Ltd. is located in Kolhapur, Kagal Five Star, MIDC Maharashtra, INDIA. With vast experiences of 10 years dealing in Ceramic Foam filters and foundry material, we are India's 1st and only manufacturer that specializes in research, development and production for various type of ceramic foam filter. We manufacture Silicon Carbide ceramic foam filter, Alumina ceramic foam filter and Zirconia ceramic foam filter, these products are mainly used in CI casting, S G Iron, Bronze, Brass, Copper-Alloys, Aluminum casting, Steel casting.

With state of the art production facility and capacity to produce 4 to 5 Million filters per month, our Foam Filters are used nation wide and also exported to various countries globally. We also deal in high quality Refractory Gating System Shapes used in foundry and steel plant; it's made by high quality ceramic-refractory material.

Technical innovation is the soul of the enterprise. Relying on technology, using advanced management method, the company provides quality of products to clientele. We are making high quality brand of ceramic foam filters in INDIA and approaching globally. We take pride in serving our customers with consistency. "Pursuing excellence, customer first" is the aim of the company and to create more economic benefit for clients is our goal.

# Why Us?



World Class  
Foam Filters



Well Equipped  
Manufacturing Plant



In House Testing &  
R&D Setup



Durability &  
Lightweight



Customised  
Sizes & Forms



Top Notch Quality with  
Competitive Pricing



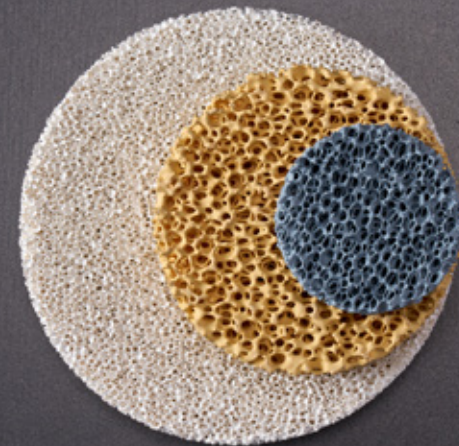
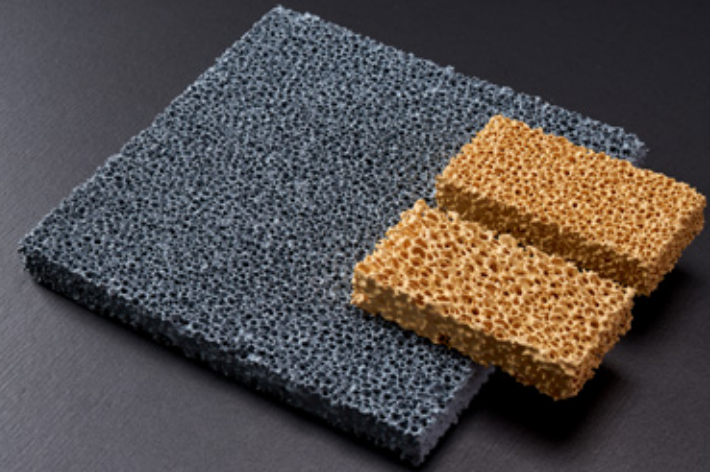
Perpetual  
Innovation Approach



Better  
Castings



Complete  
Customer Satisfaction







## R&D Overview

With its sophisticated technological infrastructure and demanding consumer. The Indian market is an excellent proving ground for us. The pace of innovation in India puts us successful players in this market ahead of the rest of the world providing a competitive advantage that we have leveraged to the fullest.

Our continuous expansion efforts grow out of a strategic focus on R&D, which has been a core focus of the company since its inception. Building on this innovation, we are developing different products used by different industries worldwide to make castings. By building and maintaining close coordination between our customers, we can accurately diagnose new requirements and deliver solutions that meet the market's needs for the long term.

The result of R&D and focus is clear and our exceptional ability to translate laboratory innovation into real-world products so that our valued customers take full advantages.

### Leading Through Ideas & Innovation

Innovation is a core stream of our business. This opportunity/velocity surely translates this sense of speed into a customer- facing benefit. We are living of and by innovations and every day it can be felt across all layers of the company to precede the market needs to keep developing.

## Ceramic Foam Filter

Ceramic foam filter with a high temperature, corrosion resistance, resistance to molten metal erosion, high strength, high pass rate, and the characteristics of the large surface area is mainly used in the field of metallurgy and casting metal liquid filtration and purification. The flow of a mixture of molten metal passes through foam ceramic porous structure becomes uniform smooth clean molten metal. It removes micron inclusions and some parcels gas reduce the erosion of the sand mold, and reduce product obsolescence rate. Ceramic foam filters can be made of different pore size and porosity, in order to obtain satisfactory filtration effect.

### Products

**FILTEX® SIC** - Filters for cast iron, S G Iron

**FILTEX® Zr** - Filters for Cast Steel , Steels Alloys

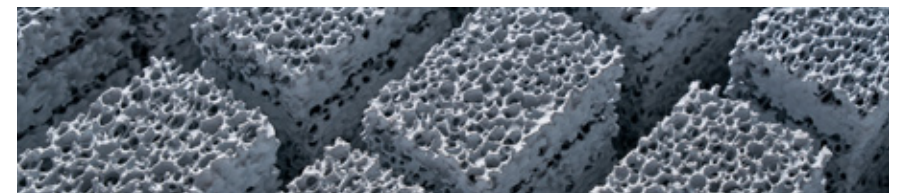
**FILTEX® AL** - Filters for aluminium

### Advantages

- Compact, short and direct gating system
- Laminar metal flow
- Larger pattern plate area available
- Significant reduction of non-metallic inclusions due to high filtration efficiency
- Improved technical properties of castings
- Increased yield

### Shapes

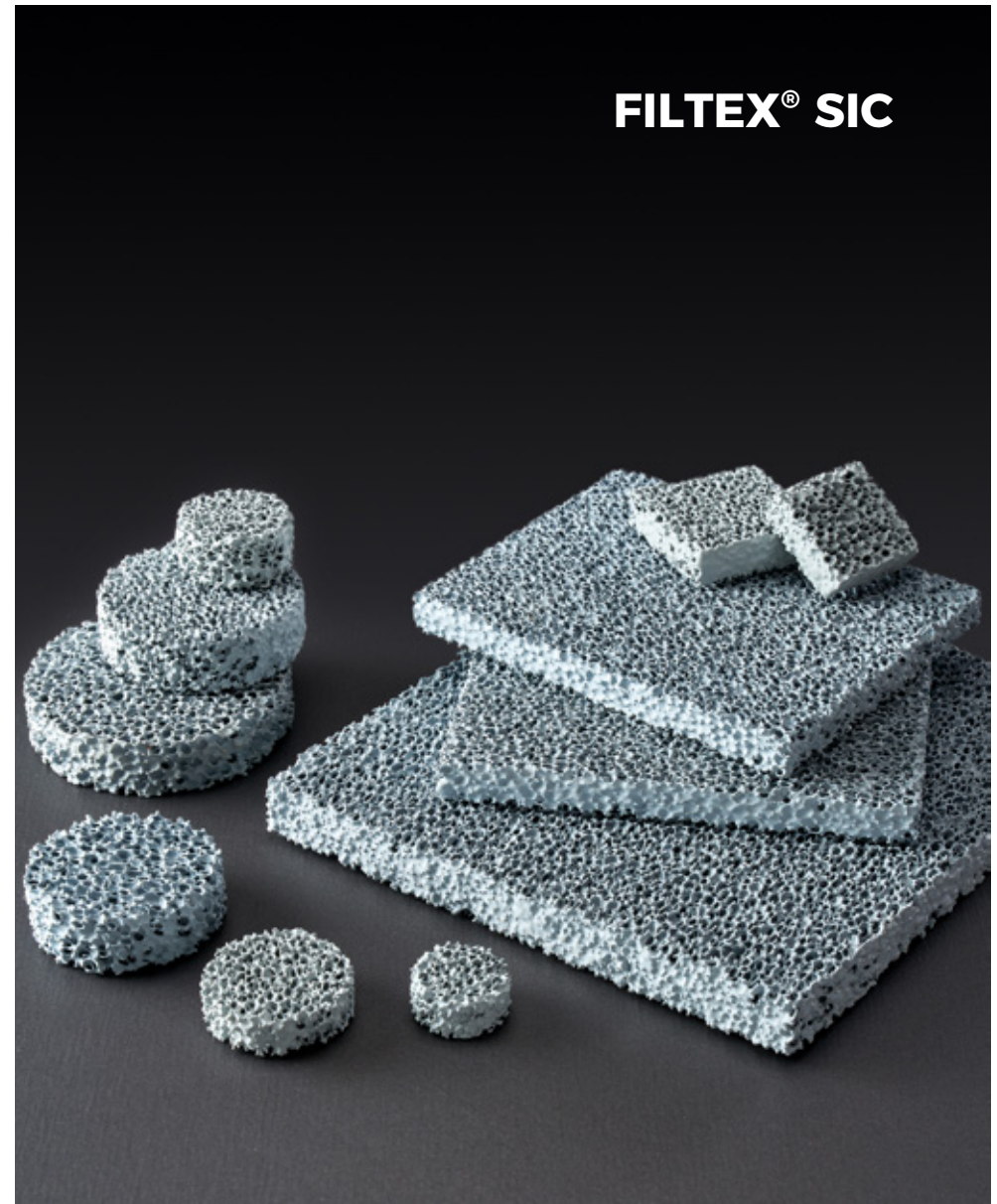
Square | Round | Rectangular | Custom Shapes



## FILTEX® Silicon Carbide

FILTEX® SIC filters are excellent for use during pouring of nodular cast iron, lamellar cast iron, malleable cast iron and all further high- and low-alloyed cast iron types and also in pouring of copper alloys. Silicon carbide foam-ceramic filters have a porosity of more than 80% and grant through its 3-dimensional structure an excellent filtration over the thickness. 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.

Porosity	> 80 - 87 %
Pores distribution	10 - 30 PPI
Density	0.40 - 0.55 g/cm <sup>3</sup>
Operating Temperature	≤ 1,500°C
Compressive Strength	1.2 MPa
Tolerance of Dimension	+ 0,5 / - 2 mm (upto 99 mm) + 0,5 / - 3 mm (above 100 mm)



## FILTEX® Zirconia

FILTEX® Zr. Ceramic foam filters are used in the production of steel and large iron castings, which can effectively trap non-metallic inclusions in the metal stream, resulting improvements are lower scrap, increased yield, mechanical properties, good finish and machinability. Suitable for all steel castings including Carbon Steel, Stainless Steel, Cobalt, Nickel alloy castings etc.

Porosity	> 80 %
Pores distribution	10 - 30 PPI
Density	0.70 - 0.85 g/cm <sup>3</sup>
Operating Temperature	≤ 1,700°C
Compressive Strength	> 1.5 MPa
Tolerance of Dimension	+ 1 / - 2 mm (upto 99 mm) + 2 / - 3 mm (above 100 mm)





## FILTEX® Alumina

FILTEX® AL Ceramic Foam Filters , These filters are used for pouring of Aluminium alloys into chills and into sand moulds , Alumina Ceramic Foam Filters are mainly used for filtration of aluminium and alloys in foundries and cast houses. With the excellent resistance to attack and corrosion from molten aluminium, the filter 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.

Porosity	> 80 - 90 %
Pores distribution	10 - 40 PPI
Density	0.36 - 0.45 g/cm3
Operating Temperature	≤ 1,100°C
Compressive Strength	> 1.2 MPa





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