



TECHNICAL DATA SHEET

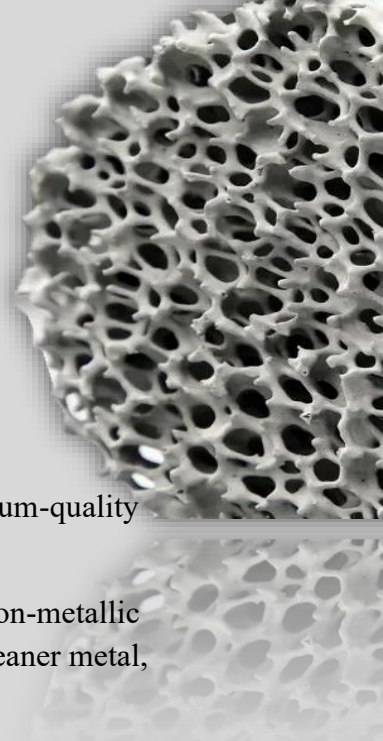
Silicon Carbide Ceramic Foam Filter (SiC)

Ferro Fanavaran Ceram Co.

Product Description

Ferro Fanavaran Ceram Silicon Carbide Ceramic Foam Filters are manufactured from premium-quality raw materials using an advanced production process under strict quality control.

The three-dimensional interconnected open-cell structure efficiently removes slag, oxides, non-metallic inclusions and other impurities while minimizing molten metal turbulence. This results in cleaner metal, improved casting quality, enhanced mechanical properties and reduced casting defects.



Features

- Excellent thermal shock resistance
- High mechanical strength
- Uniform open-cell structure
- High open-cell porosity
- Excellent resistance to molten metal corrosion
- Efficient removal of non-metallic inclusions
- Reduced molten metal turbulence
- Improved casting surface finish
- Enhanced mechanical properties
- Reduced casting defects and machining requirements

Available Pore Densities

- 10 PPI
- 20 PPI

Applications

- Grey Iron
- Ductile Iron
- Malleable Iron
- Copper Alloys
- Bronze
- Brass

Technical Specifications

Typical Chemical Composition	PPI	Porosity (%)	Colour	Application temperature	Bending Strength (MPa)	Compressive Strength (MPa)	Bulk Density (g/cm ³)	Thermal Shock Resistance
SiC, Al ₂ O ₃ , SiO ₂	10-20	80-90%	Grey	Max 1550°C	0.9 ≤	1.2 ≤	0.4 – 0.55	1100°C (6 thermal shock cycles)

Recommended Filter Capacity

Dimension (mm)	Thickness (mm)	Capacity (kg)	Flow Rate (kg/s)	Capacity (kg)	Flow Rate (kg/s)	Capacity (kg)	Flow Rate (kg/s)
		10 ppi		10 ppi		20 ppi	
		Ductile Iron		Grey Iron			
30*50	22	30	3	60	4	47	3
40×40	22	34	3	68	4	53	3
50×50	22	55	4	110	6	85	3.5
75×50	22	75	6	173	9	122	6
75×75	22	110	9	212	14	162	7
100*50	22	100	8	200	12	155	9
100*75	22	150	12	345	18	243	13
100*100	22	200	16	460	24	324	18
150*150	22	450	36	1035	54	729	40
Dia40	22	25	2	58	3	41	2
Dia50	22	41	4	82	5	61	3
Dia60	22	56	5	112	7	87	4
Dia70	22	77	6	177	9	125	7
Dia75	22	88	7	203	11	143	8
Dia100	22	156	13	361	19	254	14

The values shown above are typical recommendations. Actual filter capacity depends on casting weight, alloy type, pouring temperature, gating system design and pouring conditions.

Filter Selection

The appropriate filter size and pore density (PPI) should be selected according to:

- Alloy type
- Casting weight
- Pouring rate
- Filling time
- Required casting quality
- Gating system design



Storage

- Store in a clean and dry environment.
- Protect filters against impact and moisture.
- Keep filters in their original packaging until use.

Ferro Fanavaran Ceram Co.

Manufacturer of Silicon Carbide Ceramic Foam Filters for the Foundry Industry.

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