



Ceramic Foam Filter

With good properties and stable quality, AMI[®] Ceramic Foam Filter are used in various working conditions in casting system for non ferrous alloy, aluminium, copper, iron, steel, and achieve good performance.



Advantages:

- Remarkably reduce the objection of impurity, sand inclusions, sand hole, slag eye, pore.
- Improve the surface quality, machinability and mechanical property of the cast.
- Reduce the fray of the cutting tools, increase the availability of the plate pattern.
- Simplify the gating system, raise the qualified rate of the cast.

Characteristics:

- High void volume, precise dimension, high strength.
- High refractoriness, good thermal shock resistance.

Technical Parameters

Items	Code	ALO	SIC	ZRO
Main Material		Alumina	Silicon Carbide	Zirconia
Chemical Composition	Al ₂ O ₃	65-75%	15-25%	0-15%
	SiO ₂	5-20%	10-25%	0-5%
	SiC	----	55-65%	----
	ZrO ₂	----	----	>70%
	Other	5-15%	0-5%	0-10%
Bulk Density (g/cm ³)		≤0.45	≤0.50	≤1.50
Compressive Strength (MPa)		≥1.0	≥1.2	≥1.5
Thermal Coefficient (W/ m • K)		0.20	0.45	0.30
Thermal Shrinkage rate		<0.3%	<0.3%	<0.3%
Thermal Expansion coefficient (@700°C x10 ⁻⁶ m/m·K)		<2.77	<4.50	<4.50
Refractoriness		1700°C	1800°C	1800°C
Porosity		80-90%	80-90%	70-80%

(To be continued)					
Items		Code	ALO	SIC	ZRO
Thermal Shock Resistance			800~30°C, 5 times	1300~30°C, 5 times	1350~30°C, 3 times
Available Sizes	Length/Diameter		40~584mm	40~584mm	40~200mm
	Width/Diameter		(1.5''~23'')	(1.5''~23'')	(1.5''~8'')
	Thickness		≤50.8mm (2'')	≤50.8mm (2'')	≤50.8mm (2'')
	Customized sizes are available.				
Available PPI			8~60ppi	8~60ppi	8~60ppi
Filter Capacity (kg/cm ²)			16.80~19.72	Gray Iron: 2.0~4.0 Magnesium Iron: 1.0~2.0 Cast Iron Alloy: 0.5~1.0	Stainless Steel: 1.9~4.0 Carbon Steel: 1.4~2.7
Max Working Temperature			1200°C	1550°C	1750°C
Best Applied for			Aluminium and Aluminium Alloy casting	Copper and Alloy, Iron, and Iron Alloy casting	Steel, Stainless Steel and its alloy casting
Other application			gas filter, chemical fillings, catalysis carrier		

Please consult with professional Technician for best solution:

- Chose the suitable product code (material) and best position, install method.
- Calculate the suitable filter size and PPI based on the metal characteristics, the filter capacity and the pouring time.

Astral Material Industrial Co., Ltd.

Tel.: 0086 757 82667103 83030798

Fax: 0086 757 82701478

E-mail: business@gmico.net info@amic.biz

<http://www.amic.biz> <http://www.gmico.net>