

Ceramic Fiber Shapes



Datasheet Code 5-5-01 E

MSDS Code 104-9-EURO REACH

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DESCRIPTION

Ceramic fiber shapes are manufactured from refractory fibers. They are designed for use in application conditions requiring superior insulating properties combined with high rigidity and mechanical strength.

The above shapes can be made to suit specific requirements.

TYPE

Rigid flat and curved refractory ceramic fiber shapes

CLASSIFICATION TEMPERATURE

STD	: 1260 °C
AZS	: 1400 °C
S	: 1260 °C
HS 45	: 1100 °C
M 1600	: 1600 °C
Paper	: 1260 °C /1400 °C

AVAILABILITY

Flat shapes: 700 mm width X 1200 mm length
X 125 mm thick

Sleeves : ID 20 mm X OD 500 mm X 75 mm
Thick X 300 mm length

FEATURES

- Excellent insulating performance
- Excellent thermal stability
- Low heat storage
- Resistance to thermal shock
- Good machinability
- Non wetting to Aluminum

APPLICATIONS

- Molten Aluminum Handling applications
- Transfer ladles
- Die casting
- Pouring tubes

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MAJOR PROPERTIES

Physical Properties	STD	AZS	S	HS 45	M1600	PAPER	BAFFLE
Classification temperature °C	1260	1400	1260	1260	1600	1260	1425
Chemical composition (%) (IS:12107 / XRF)							
Al ₂ O ₃	> 40	> 29	> 44	49 - 54	> 70 *	> 42	> 29
SiO ₂	< 60	< 55	< 56	33 - 37	< 28	< 58	< 55
ZrO ₂	--	> 10	--	--	--	--	> 10
CaO	--	--	--	9 - 12	--	--	--
Loss on ignition %	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Density (Nominal) kg/m ³	240	240	330	720	425	150	250
Availability and Packing							
Shapes & Sleeves							
Min ID 20mm Max OD 500 mm Max length 300 mm Min Wall thickness 50 mm Max wall thickness 75 mm	✓	✓	✓	--	--	✓	✓
Min ID 20mm Max OD 500 mm Max length 300 mm Min Wall thickness 10 mm Max wall thickness 25 mm				✓	✓		
Thickness (mm)	Flat shapes 1200 mm Length X 700 mm width						
Up to 30 mm							
Up to 50 mm				✓	✓	✓	
Up to 75 mm			✓				
Up to 150 mm	✓	✓					✓

* Al₂O₃ + ZrO₂

The values given herein are typical values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. Therefore, the data contained herein should not be used for specification purposes. Check with your Thermal Ceramics office to obtain current information.

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