

Introduction

Our standard Refractory Ceramic Fiber based SoliBoard™ product range consists of 3 types, with a classification temperatures of 2300°F till 2600°F. Manufactured using our Ultra Low Shot technology these boards are delivering a better performance compared to traditional refractory ceramic fiber based boards. SoliBoard™ can be used for a wide range of application in refractory linings or in domestic appliances.

Our continuous production process and advanced drying techniques enable us to produce uniform, lightweight, low shot, and stable boards up to 4 inches in thickness. These boards maintain high consistency, quality, and performance.

SoliBoard™ X-grade

SoliBoard X-grade is our general-purpose refractory board rated for 2300°F. It is made from SoliBulk X-grade fibers with carefully selected inorganic and organic fillers, delivering excellent strength and performance in refractory linings.

SoliBoard™ HT-grade

SoliBoard HT-grade stands out with its unique composition. By using our 2400°F rated SoliBulk HP-grade fibers, we have increased the classification temperature of SoliBoard HT-grade to 2550°F without the need for zirconia.

SoliBoard™ ZR-grade

The highest rated RCF board is our SoliBoard ZR-grade, based on our 2600°F classified SoliWool ZR Bulk. It provides a reliable solution for applications operating at continuous temperatures up to 2400°F.

In addition to the SoliBoard Standard RCF grade range, we offer a wide selection of Low Bio Persistence (LBP) fiber based boards and Special Grade boards. Specially developed on high-strength requirements, inorganic binder boards or, when utilizing PCW fiber, addressing the most demanding applications.

All standard board formulations include a small amount of organic binder to enhance cold handling strength, which burns out during the initial firing at approximately 500°F.

Type

Boards from high temperature Refractory Ceramic Fiber (RCF) insulation wool and selected fillers.

Temperature range

SoliBoard™ X-grade has a classification temperature of 2300°F.

SoliBoard™ HT-grade has a classification temperature of 2550°F.

SoliBoard™ ZR-grade has a classification temperature of 2600°F.

The maximum continuous use temperature provided on the datasheet is guideline and only applicable in a clean oxidizing atmosphere.

Typical applications

- Thermal insulation for furnace linings
- High temperature back-up insulation for ladles and torpedo cars
- Tundish and launder covers in the casting of various alloys
- Insulation in tunnel kiln and holding furnaces for the ceramic industry
- Lining combustion chamber for gas fired boilers and heaters
- General technical insulation of furnaces and technical installations

Benefits

- Excellent insulation performance
- High handling strength
- Resistant to erosion from high gas velocities
- Can be used in direct flame contact
- Low shrinkage
- Excellent thermal stability



Properties measured	Standard	Unit	SoliBoard™ X-grade	SoliBoard™ HT-grade	SoliBoard™ ZR-grade
Grade			RCF	RCF	RCF
Colour			off-white	off-white	off-white
Classification temperature		°F	2300	2550	2600
Continuous use temperature		°F	2000	2300	2400
Density		PCF	17.5-20	17.5-20	18.5-20
Modules of Rupture	EN 993-6				
Unfired		PSI	≥ 100	≥ 100	≥ 100
Compressive Strength (unfired)	EN ISO-8895				
@ 5% deformation		PSI	≥ 20	≥ 20	≥ 20
@ 10% deformation		PSI	≥ 25	≥ 25	≥ 25
Loss on ignition		wgt%	< 8	< 8	< 8
Permanent linear shrinkage	EN 1094-7	%			
@2200°F			< 3		
@2400°F					
@2550°F				< 2	< 3
Thermal conductivity	ASTM C201	BTU-in/hr-ft²·°F			
@ 500°F			0.45	0.45	0.45
@ 1000°F			0.68	0.72	0.68
@ 1500°F			1.06	1.10	1.06
@ 1800°F			1.33	1.39	1.33
@ 2000°F			1.56	1.63	1.56

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Availability

SoliBoard is available in standard dimensions of 47-1/4 x 36 inch, supplied in carton boxes with a height of approximately 5 inches (based on thickness) or in project pack without carton boxes. Please refer to the provided list for packaging details of SoliBoard in the standard carton boxes.

SoliBoard 47-1/4 x 36 inches		
Thickness	Per carton box	Boards per pallet
1/4"	20	280
3/8"	12	168
1/2"	10	140
3/4"	6	90
1"	5	70
1-1/2"	3	45
2"	2	36
3"	1	23
4"	1	18

Product range

SoliBoard is part of an extensive product range supplied by Vulcor Insulation. Vulcor Insulation is supplying insulation solutions from cryogenic to high temperature applications. All products offered by Vulcor are manufactured in house or sourced from exclusive trusted 3rd party partners.

Technical support

Vulcor Insulation provides specifiers and customers with guidance on all aspects of the materials selection for their application, the installation and compliance with relevant regulations and performance standards.

For additional information about product performance or to identify the recommended product for your application, please contact the team at Vulcor Insulation.