



### Introduction

The SoliBoard™ High Temp Series consists of boards which are all designed for a special purpose. Either these boards have been developed for extreme durability, high temperature performance and fit for the most demanding applications. SoliBoard™ High Temp Series are an addition to an extensive board product range targeted to provide solutions in a widest possible range of applications, industries, and atmospheres.

Utilizing our continuous production process with state of the art drying techniques we are able to manufacture a uniform, lightweight, low shot and stable board to a thickness of 4 inch at high consistency, quality and performance.

### SoliBoard™ PCW INO-grade

The SoliBoard PCW INO-grade, with a classification temperature of 2900°F, is the top end of our SoliBoard product range. We manufacture our SoliBoard PCW INO from a mixture of poly crystalline fibers and a small percentage of our own developed and heat treated SoliWool HA fiber.

The result is a product which is showing less than 1% shrinkage even if tested at 2900°F. Because the SoliBoard PCW INO-grade is manufactured using special inorganic fillers there is hardly any fumes or loss of strength at first firing.

The SoliBoard High Temp Series are complimented by an extensive range of standard refractory ceramic fiber (RCF), High Strength Boards and low bio persistence (LBP) fiber boards.

### Type

Boards from high temperature Poly Crystalline Wool (PCW) and Refractory Ceramic Fiber (RCF) wool and selected fillers.

### Temperature range

**SoliBoard™ PCW INO-grade** has a classification temperature of 2900°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
- Chemical resistant lining in furnaces operating in reducing atmospheres
- Lining combustion chamber for gas fired boilers and heaters
- General technical insulation of furnaces and technical installations

### Benefits

- Low shot technology
- 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
- Resistant to thermal shock



Properties measured	Standard	Unit	SoliBoard PCW INO-grade
Grade			PCW/RCF blend
Colour			white
Classification temperature		°F	2900
Continuous use temperature		°F	2700
Density		PCF	28
Loss on ignition	GB/T6900	wgt%	< 3
Compressive strength	EN ISO8895		
@ 5% deformation		PSI	> 30
@ 10% deformation		PSI	> 40
Permanent linear shrinkage	EN 1094-7	%	
@2800°F			< 1
Thermal conductivity	ASTM C201	BTU-in/hr-ft <sup>2</sup> -°F	
@ 500°F			0.38
@ 1000°F			0.62
@ 1500°F			1.00
@ 1800°F			1.23
@ 2000°F			1.52
@ 2200°F			1.75
Chemical composition (after firing),	GB/T 21114	%	
Al <sub>2</sub> O <sub>3</sub>			60-62
SiO <sub>2</sub>			37-40
ZrO <sub>2</sub>			-
Other			< 1

### Contact

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### Availability

SoliBoard High Temp Series are available in a wide range and thicknesses. The standard size of the boards is 39.37x23.62 inch and is packed in carton boxes of approximately 5 inch thickness for protection. Please refer to the list below for packaging details of the SoliBoard, other sizes are available on request.

SoliBoard High Temp Series 39.37x23.62 inch		
Thickness	Per carton box	Boards per pallet
3/8"	12	336
1/2"	10	280
1"	5	140
2"	2	72

### 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 3<sup>rd</sup> 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.