



Introduction

The SoliBoard™ High Temp Series consists of boards which are designed for a special purposes in high temperature applications. Developed for extreme durability, high temperature performance and fit for the most demanding applications. SoliBoard PCW blended boards are the first step up from the standard RCF boards, but without the costs of a pure PCW fiber based boards.

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™ PCW35 HT

SoliBoard™ PCW35 HT is combining the advantages of polycrystalline Wool (PCW) fibers with the unique features of the SoliWool HA. Delivering minimum shrinkage at high temperature exposure, high temperature stability up to 2750°F, but without the costs of pure PCW boards.

SoliBoard™ PCW80 HT INO

Our premium SoliBoard™ PCW80 HT INO, the pinnacle of our SoliBoard blended boards. With a classification temperature of 2950°F, it surpasses all expectations. SoliBoard PCW80 HT INO is carefully crafted using a blend of poly crystalline fibers and our exclusive, heat-treated SoliWool HA fiber. This unique combination ensures exceptional performance and durability.

Thoroughly tested SoliBoard PCW80 HT INO demonstrates minimal shrinkage, measuring less than 1% when tested at 2912°F.

Because the SoliBoard SoliBoard PCW80 HT INO is manufactured using special inorganic fillers there is hardly any fumes or loss of strength at first firing.

Type

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

Temperature range

SoliBoard™ PCW35 HT has a classification temperature of 2750°F.

SoliBoard™ PCW80 HT INO has a classification temperature of 2950°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
- Laboratory and dental kilns
- General technical insulation of furnaces and technical installations

Benefits

- Excellent insulation performance
- Cost effective solution versus pure PCW boards
- Can be used in direct flame contact
- Low shrinkage
- Excellent thermal stability
- Low organic binder contents (INO series)



Properties measured	Standard	Unit	SoliBoard™ PCW35 HT	SoliBoard™ PCW80 HT INO
Grade			PCW/RCF blend	PCW/RCF blend
Colour			white	white
Classification temperature		°F	2750	2950
Continuous use temperature		°F	2500	2700
Density		PCF	18.5	28
Loss on ignition		wgt%	< 8	< 3
Compressive strength	EN ISO8895			
@ 5% deformation		PSI	> 28	> 30
@ 10% deformation		PSI	> 35	> 40
Permanent linear shrinkage	EN 1094-7	%		
@2600°F			< 1.5	
@2900°F				< 1
Thermal conductivity	ASTM C201	BTU·in/hr·ft²·°F		
@ 500°F			0.38	0.45
@ 1000°F			0.62	0.66
@ 1500°F			1.00	1.05
@ 1800°F			1.28	1.23
@ 2000°F			1.56	1.52
@ 2200°F			1.84	1.75
Chemical composition (after firing),	ISO12667	%		
Al ₂ O ₃			57-60	61-63
SiO ₂			40-43	37-39
ZrO ₂			-	-
Other			< 1	< 1

Contact

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Availability

SoliBoard is available in standard dimensions of 36x23.62 inch, supplied in carton boxes with a height of approximately 5 inches (based on thickness). Please refer to the provided list for packaging details of SoliBoard in the standard carton boxes.

SoliBoard High Temp Series 36x23.62 inch		
Thickness	Per carton box	Boards per pallet
3/8"	12	336
1/2"	10	280
3/4"	6	180
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 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.