

Introduction

Our SoliBlanket standard grade RCF offering is based on 2 main products: SoliBlanket X-grade with a classification temperature of 2300°F and SoliBlanket ZR-grade with a classification temperature of 2600°F. Manufactured using the latest spinning technology it is delivering a better performance than any other traditional refractory ceramic fiber blankets.

All products offered in the SoliWool™ product range share the Ultra Low Shot fiber technology which has been developed to achieve the highest possible thermal insulation value, higher strength, greater resiliency after compression and better handling.

SoliBlanket X-grade

SoliBlanket X-grade is setting a new standard for a classic RCF blanket. Manufactured using the latest spinning technology it is delivering higher strength, provides better handling and up to 36% better thermal insulation compared to traditional refractory ceramic fiber blankets. With a classification temperature of 2300°F it is recommended for use up to 2100°F.

SoliBlanket ZR-grade

To differentiate our unique RCF-Zr blanket from the competition offering we combine our Generation III fiberisation technology with the best possible raw material blend utilizing the unique advantage of zirconia. In result we have proven in independent testing that SoliBlanket ZR has lower shrinkage and better thermal insulation compared to peers. SoliBlanket ZR-Grade provides a proven solution in applications operating continuously till 2400°F.

All SoliBlanket products are available in a wide range of dimensions and densities from 4 PCF to 10 PCF. All products have been developed to meet requirements specific to the final application.

Type

Blanket from high temperature Refractory Ceramic Fiber insulation wool.

Temperature range

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

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

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

Typical applications

- Thermal insulation for furnace lining
- Thermal insulation for lining stacks and chimneys
- Blanket for module making
- Furnace lining in Ceramics and Glass
- Thermal insulation for the Petrochemical Industry
- Thermal insulation for Steel Treatment
- General technical insulation of furnaces and technical installations.

Benefits

- Proven technical solution
- Low shot technology
- Excellent insulation performance
- High handling strength
- Unaffected by most chemicals
- Excellent thermal stability
- Resistant to thermal shock



Properties measured	Standard	Unit	SoliBlanket X-grade			SoliBlanket ZR-grade		
Grade			RCF			RCF		
Colour			white			white		
Classification temperature	EN 1094	°F	2300			2600		
Maximum Continuous use temperature		°F	2100			2400		
Density		PCF	6	8	10	6	8	10
Tensile strength	EN 1094	PSI	11	13	14.5	10	11.5	13
Permanent linear shrinkage	EN 1094	%						
@2200°F			< 3			-		
@2600°F			-			< 2.5		
Thermal conductivity	ASTM C-201	BTU·in/hr·ft ² ·°F						
@ 500°F			0.38	0.38	0.39	0.41	0.41	0.41
@ 1000°F			0.75	0.72	0.70	0.78	0.74	0.74
@ 1500°F			1.35	1.24	1.18	1.35	1.24	1.18
@ 1800°F			1.76	1.60	1.50	1.76	1.60	1.50
@ 2000°F			2.10	1.90	1.79	2.10	1.90	1.79
@ 2200°F						2.54	2.30	2.16
Chemical composition,	ISO12677	%						
SiO ₂			53-55			48-51		
Al ₂ O ₃			44-46			34-37		
ZrO ₂			-			14-17		
Fe ₂ O ₃			< 0.3			< 0.2		
Other			< 0.3			< 0.25		

Contact

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The product label 'Soli', the company name 'Vulcor' and the 'ULS' technology are registered.

Availability

SoliBlanket is standard supplied in shrink wrap plastic film, and can be supplied in carton boxes (except 1/4 inch which is only available with 4 rolls per carton box). The blankets in shrink wrap are placed on a heat treated export pallet with 24 rolls per pallet. All SoliBlankets are available in double width, packed in shrink wrap. Please refer to list below for availability of densities and dimensions.

Length (inch)	Width (inch)	Thickness (inch)	4 PCF	6 PCF	8 PCF	10 PCF
216	24	1/4	-	-	X	-
600	24	1/2	-	X	X	X
400	24	3/4	-	O	X	O
300	24	1	X	X	X	X
180	24	1-1/2	O	X	X	-
150	24	2	X	X	X	X
Standard item						X
On request						O
Not available						O

Product range

SoliBlanket is part of an extensive product range supplied by Vulcor Insulation. Vulcor Insulation is supplying an extensive range of insulation solutions for industrial and 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.