

Introduction

The Standard Grade RCF range SoliBlanket consists of 2 types of Refractory Ceramic Fiber blankets for the temperature range of 2300°F to 2600°F : the X-grade and the ZR-grade. Next to the Standard Grade RCF range we also offer SoliBlanket in low bio persistence fiber (LBP) and a Special Grade RCF range with a High Purity, High Alumina and Chrome blanket.

All products offered in the SoliWool product range share the Ultra Low Shot 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 a better performance than a 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 classic RCF-Zr blanket from the competition offering we ensure a high level of Zirconia, which is minimizing shrinkage, and we benefit from the use of our ULS spinning technology which is also making the SoliBlanket ZR-grade a better product to work with. The 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	SolliBlanket X-grade		SolliBlanket ZR-grade		
Grade			RCF		RCF		
Colour			white		white		
Classification temperature		°F	2300		2600		
Continuous use temperature		°F	2100		2400		
Density		PCF	6	8	6	8	
Tensile strength	GB/T 17911	PSI	11.5	14.5	9.5	13	
Permanent linear shrinkage	GB/T 17911	%					
			@2200°F	< 3		< 2	
			@2600°F	-		< 3.5	
Thermal conductivity	ASTM C201	BTU-in/hr-ft ² -°F					
			@ 500°F	0.45	0.42	0.45	0.42
			@ 1000°F	0.80	0.72	0.80	0.74
			@ 1500°F	1.42	1.17	1.49	1.24
			@ 1800°F	1.81	1.53	1.93	1.65
			@ 2000°F	2.16	1.79	2.28	1.96
Chemical composition,	GB/T 21114	%					
			SiO ₂	53-55		48-51	
			Al ₂ O ₃	44-46		34-37	
			ZrO ₂	-		14-17	
			Fe ₂ O ₃	< 0,6		< 0,2	
			Other	< 0,4		< 0,25	

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Availability

SolliBlanket is standard supplied in shrink wrap plastic film, but can also be supplied in carton boxes (except 1/4" which is only available with 4 rolls per carton box). The blankets are placed on a heat treated export pallet with 24 rolls per pallet (18 rolls for 4 PCF density). Please refer to the list below for availability and dimensions of the fiber, other sizes are available on request.

Length (inch)	Width (inch)	Thickness (inch)	4 PCF	6 PCF	8 PCF
216	24	1/4		○	X
600	24	1/2	○	X	X
400	24	3/4	○	○	○
300	24	1	X	X	X
200	24	1-1/2	X	X	X
150	24	2	X	X	X
Standard item					X
On request					○

Product range

SolliBlanket 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.