Introduction

Next to our standard RCF and LBP fiber range we also offer 2 special grades which have been developed specifically to offer solutions to extremely demanding markets. This SoliBlanket Special Grade product range consists of our 1370°C rated SoliBlanket™ HA-grade and the 1480°C rated SoliBlanket™ CR-grade.

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™ HA-grade

By increasing the alumina content, based on a Standard RCF, we have succesfully developed a unique, spun, 2500°F grade blanket without the use of Zirconia (ZrO_2). Fiber products containing Zirconia, in some countries, is unfavorable and therefore the SoliBlanket HA is the solution. But we also have seen that in atmospheres with higher levels of alkali (for example Aluminium Remelt Furnaces) the SoliBlanket HA-grade is more durable and is less vulnerable for chemical attack.

SoliBlanket™ CR-grade

SoliBlanket CR-grade provides the highest classification and continuous use temperature of all melt/spun fibers using Chromium Oxide and further microcrystalline processing during production. With a classification temperature of 2700°C it is recommended for use up till 2500°C. It is unaffected by most chemicals and can be used in the most severe operating conditions. SoliBlanket CR-grade is used in special stainless steel furnaces which are heavily pollution due to additives in the special grade steel. SoliBlanket CR-grade is offering higher durability then other types of fiber.

All SoliBlankets in the special grade product range are available in the most popular densities and dimensions. From 6 to 8 PCF and a thickness range from 1/2 till 2 inches. 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 HA-grade has a classification temperature of 2500°F.
SoliBlanket CR-grade has a classification temperature of 2700°F.

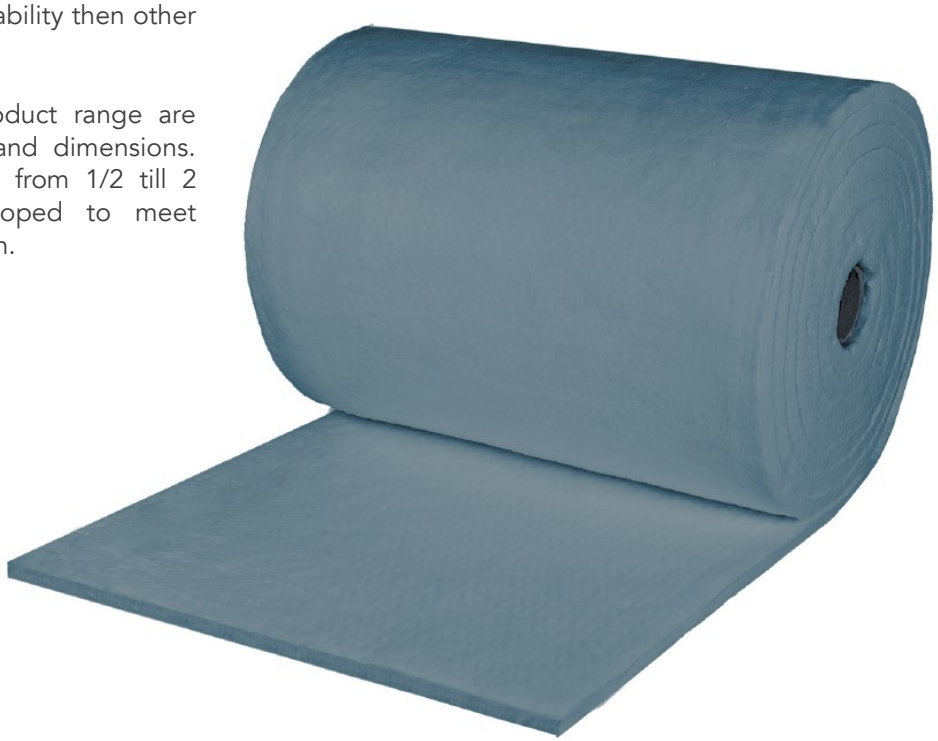
The maximum continuous use temperature provided on the datasheet is a guideline and only applicable in a clean oxidizing atmosphere.

Typical applications

- Insulation lining for aluminium remelt furnaces - SoliBlanket HA
- Insulation lining for furnaces in special stainless steel industry - SoliBlanket CR
- Blanket for module making
- Thermal insulation for the Petrochemical Industry replacing RCF-Zr blankets - SoliBlanket HA
- 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



VULCOR INSULATION

SOLIBLANKET™

SPECIAL GRADE RCF

Datasheet English–Imperial

Properties measured	Standard	Unit	SoliBlanket HA-grade		SoliBlanket CR-grade	
Grade			RCF		RCF	
Colour			white		green/blue	
Classification temperature		°F	2500		2700	
Continuous use temperature		°F	2200		2400	
Density		PCF	6	8	6	8
Tensile strength	EN 1094-1	PSI	9.5	13	10.5	13
Permanent linear shrinkage	EN 1094-7	%				
@ 2200°F			< 2			
@ 2600°F					< 2.5	
Thermal conductivity	ASTM C-201	BTU·in/hr·ft²·°F				
@ 500°F			0.52	0.47	0.52	0.46
@ 1000°F			0.90	0.76	0.83	0.74
@ 1500°F			1.56	1.32	1.43	1.28
@ 1800°F			2.05	1.85	2.03	1.72
@ 2000°F			2.52	2.19	2.40	2.05
Chemical composition,	ISO 12677	%				
SiO_2			49-52		51-54	
Al_2O_3			48-51		43-46	
Cr_2O_3			-		2.5-3	
Fe_2O_3			< 0,1		< 0,2	
Other			< 0,25		< 0,25	

Contact

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This information is composed for marketing purposes and is accurate to the best knowledge of Vulcor Insulation BV. All values give are typical values, not guaranteed unless explicitly expressed.

As Vulcor Insulation BV and its selected 3rd party partners strive to continually improve our products as means of continues development, properties may be subject to change without notice. Vulcor Insulation BV accepts no legal responsibility for use or reliance upon this data. For information regarding specific applications of the product please contact Vulcor Insulation BV.

The productlabel '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. The blankets in shrink wrap are placed on a heat treated export pallet with 24 rolls per pallet. Please refer to list below for availability of densities and dimensions.

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

Product range

SoliBlanket 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.