

Introduction

The Special Grades RCF product group of SoliBlanket consists of 3 types of Refractory Ceramic Fiber blankets: the HP-grade, HA-grade and the CR-grade. Next to the SoliBlanket in Special Grade RCF we also offer low bio persistence fiber grades (AES) and a standard range of RCF(-Zr) Blankets from 1260°C to 1430°C.

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 HP-grade

SoliBlanket HP-grade is produced with an advanced spinning process of a high purity blend of Alumina and Silica. Designed to meet the specifications of a standard Alumina/Silica blanket, but from performance perspective comparable with our standard SoliBlanket X-grade.

SoliBlanket HA-grade

By increasing the alumina content, based on a Standard RCF, we have successfully achieved a 1370°C grade blanket without the use of Zirconia. In atmospheres with higher levels of alkali the SoliBlanket HA-grade has proven to extend the lifetime of the fiber lining.

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 1480°C it is recommended for use up till 1350°C. It is unaffected by most chemicals and can be used in the most severe operating conditions.

All SoliBlankets in the special grade product range are available in a slightly more condensed range of dimensions and densities from 96 kg/m³ to 128 kg/m³. 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 HP-grade has a classification temperature of 1260°C.

SoliBlanket HA-grade has a classification temperature of 1370°C.

SoliBlanket CR-grade has a classification temperature of 1480°C.

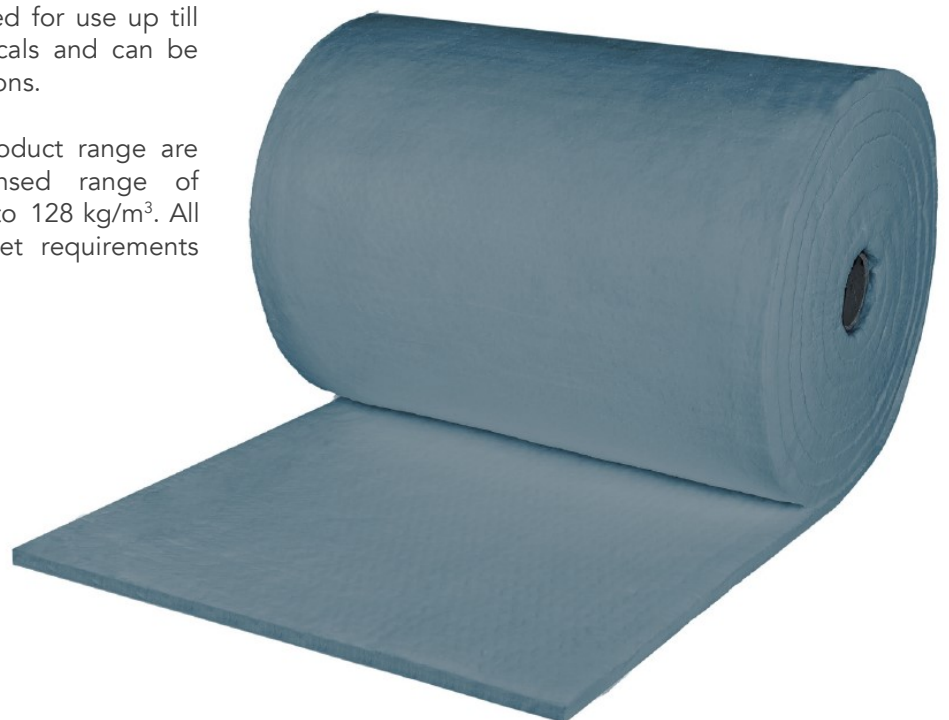
The maximum continuous use temperature provided on the datasheet is a guideline and only applicable in a clean oxidizing atmosphere.

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
- Chemically stable 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 HP-grade		SoliBlanket HA-grade		SoliBlanket CR-grade	
Grade			RCF		RCF		RCF	
Colour			white		white		green/blue	
Classification temperature		°C	1260		1370		1480	
Continuous use temperature		°C	1100		1200		1350	
Density		kg/m ³	96	128	96	128	96	128
Tensile strength	GB/T 17911	kPa	75	90	65	90	75	90
Permanent linear shrinkage	GB/T 17911	%						
	@1200°C		< 3		< 2.5		< 2	
	@1400°C						< 3	
Thermal conductivity	ASTM C201	W/mK						
	@ 200°C		0,06	0,05	0,07	0,06	0,07	0,06
	@ 400°C		0,09	0,08	0,11	0,09	0,1	0,09
	@ 600°C		0,13	0,12	0,15	0,13	0,14	0,12
	@ 800°C		0,20	0,17	0,22	0,19	0,20	0,18
	@ 1000°C		0,28	0,23	0,31	0,28	0,30	0,26
Chemical composition,	GB/T 21114	%						
	SiO ₂		54-56		49-52		51-54	
	Al ₂ O ₃		44-46		48-51		43-46	
	Cr ₂ O ₃		-		-		2.5-3	
	Fe ₂ O ₃		< 0,2		< 0,1		< 0,2	
	Other		< 0,25		< 0,25		< 0,25	

Contact

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Availability

SoliBlanket is standard supplied in shrink wrap plastic film, but can also be supplied in carton boxes. The blankets are placed on a heat treated export pallet with 24 rolls per pallet. Please refer to list below for availability and dimensions, other sizes are available on request.

Length (mm)	Width (mm)	Thickness (mm)	96 kg/m ³	128 kg/m ³
14640	610	13		○
9760	610	19	○	○
7320	610	25	X	X
4880	610	38	○	○
3660	610	50	X	X
Standard item				X
On request				○

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.