SOLIBLANKET™
LOW BIO PERSISTENCE

Datasheet English-Metric

Introduction
The low bio persistence grade of the SoliBlanket product range is labelled our 'ULS®' grade. The SoliBlanket ULS grade consist of an extensive range of high temperature fiber blankets targeted at achieving the highest possible thermal insulation value and handling strength. The low biopersistence grade is offered along with the standard and special grades of RCF Blanket.

ULS® stands for Ultra Low Shot and Soliblanket ULS is a true Generation III product that enhances the high standard on other AES fiber blankets with improved thermal conductivity and mechanical strength as result of the high fiber index.

As a result of the Ultra Low Shot technology SoliBlanket ULS provides the highest possible thermal insulation value, higher strength, greater resiliency after compression and better handling.

All products in the SoliWool ULS fiber product range, like the SoliBlanket ULS, meet the requirements specified under NOTE Q of European Regulation 1272/2008. All SoliBlanket ULS products are therefore exonerated from labelling requirements in Europe.

All SoliBlanket products are available in a wide range of dimensions and densities from 64 kg/m^3 to 160 kg/m^3. All products have been developed to meet requirements specific to the final application.

Sustainability
Our world has changed in the past few decades with reduced CO2 emissions and energy consumption as the key drivers. Therefore focus must be on the most effective methods of saving energy. A high performance insulation lining for the technical installation not only saves energy, but also provides:

- Financial savings on your energy bill
- Avoids heat loss at hot applications
- Less power demand from the burners and better furnace temperature control.

Type
Blanket from Alkaline Earth Silicate (AES) high temperature insulation wool.

Temperature range
SoliBlanket ULS has a classification temperature of 1200°C and is recommended for use to 1050°C continuously in clean oxidizing atmosphere.

Typical applications
- Thermal insulation for furnace lining
- Thermal insulation for lining stacks and chimneys
- Thermal protection cover in aluminum industry
- HRSG thermal liner for boilers and ducting
- Exhaust heat shields for automotive application
- General technical insulation of furnaces and technical installations.

Benefits
- High fibre index
- Low shot technology
- Excellent insulation performance
- High handling strength
- Low heat storage
- Excellent thermal stability
- Exonerated of carcinogenic classification under Note Q

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Properties measured	Standard	Unit	SoliBlanket ULS-grade		
Grade			AES		
Colour			white		
Classification temperature		°C	1200		
Continuous use temperature		°C	1050		
Density		kg/m3	64	96	128
Tensile strength	GB/T 17911	kPa	35	55	75
Permanent linear shrinkage	GB/T 17911	%			
@1200°C				< 3	
Thermal conductivity	ASTM C201	W/mK			
@ 200°C			0,06	0,05	0,05
@ 400°C			0,10	0,09	0,08
@ 600°C			0,16	0,14	0,12
@ 800°C			0,26	0,21	0,18
@ 1000°C			0,38	0,28	0,25
Chemical composition,	GB/T 21114	%			
SiO2				63-66	
CaO				26-33	
MgO				3-7	
Other				< 0,8	

Availability

SoliBlanket ULS is standard supplied in shrink wrap plastic film, but can also be supplied in carton boxes (except 6 mm 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. Please refer to the list below for availability and dimensions of the fiber, other sizes are available on request.

Length *(mm)*	Width *(mm)*	Thickness *(mm)*	64 kg/m3	96 kg/m3	128 kg/m3
5500	610	6		O	X
14640	610	13	O	X	X
9760	610	19	O	O	O
7320	610	25	X	X	X
4880	610	38	X	X	X
3660	610	50	X	X	X
Standard item					X
On request					O

Product range

SoliBlanket ULS 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.

Contact

Vulcor Insulation BV
Wanraaij 4
6673 DN Andelst,
The Netherlands
T: +31 (0)488 700 202
E: sales.support@vulcor.com
www.vulcor.com

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