

Introduction

Vulcor is proud to present the SoliBloc fiber modules. We are one of the very few manufacturers to offer a monolithic fiber module. SoliBloc fiber modules are offered in both Refractory Ceramic Fiber as Low Bio Persistence Fiber grades. SoliBloc fiber modules are used as light weight and thermal efficient furnace lining providing maximum flexibility to tailor modules to design.

SoliBloc Fiber Modules are built up from 2 slabs of SoliLog which are connected by 2 stainless steel tubes which also holds the central yoke (and in many cases the anchoring system).

Because the fiber slabs during production are positioned in edge grain orientation and, provide a high interlocking of the fibers, the SoliBloc modules can handle high gas velocities without erosion of the fiber structure.

Our SoliBloc fiber modules are manufactured utilizing the same Ultra Low Shot technology utilized throughout our fiber product range. Ultra-Low Shot technology is at the cutting edge of fiber production, achieving the highest possible thermal insulation value and handling strength.

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

SoliBloc Fiber Modules are available in a standard dimension of 305x305 mm, but we also tailor based on engineering requirements such a L-shaped corner modules and other specialty shapes.

Available in various anchoring systems from side mounted, center fix and direct welding systems with hardware in various grades. SoliBloc Fiber Modules are available from 128 to 240 kg/m³. All products have been developed to meet requirements specific to the final application.

Type

Monolithic Fiber Modules from high temperature Low Bio Persistence Fiber.

Temperature range

SoliBloc ULS-grade modules have a classification temperature of 1200°C.

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

Typical applications

- Thermal insulation for furnace lining
- Furnace lining in Ceramics and Glass
- Thermal insulation for Petrochemical Industry (like process heaters, reformers, cracker units)
- Chemically stable insulation for Steel Treatment (reheating furnace, annealing furnaces, rotary hearth furnaces)
- Linings in Ceramic Industry (tunnel kilns and intermittent kilns)
- 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	SolliBloc ULS-grade		
Grade			AES		
Colour			white		
Classification temperature		°C	1200		
Continuous use temperature		°C	1050		
Density		kg/m ³	160	192	240
Thickness range		mm	100-300		
Permanent linear shrinkage @1150°C	GB/T 17911	%	< 2		
Thermal conductivity	ASTM C201	W/mK			
@ 200°C			0,06	0,06	0,05
@ 400°C			0,11	0,10	0,09
@ 600°C			0,17	0,14	0,13
@ 800°C			0,24	0,21	0,19
@ 1000°C			0,32	0,28	0,25
Chemical composition,	GB/T 21114	%			
SiO ₂			63-66		
CaO			26-33		
MgO			3-7		
Other			< 0,8		

Contact

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Availability

Because of the wide range and variety of chemistries, densities, sizes and anhorng systems, SolliBloc is typically produced to project specification. From an engineering perspective a module of 305x305 mm is the most common size. In standard size the modules are packed in carton boxes of 320x320x970 mm (holding multiple modules) with 24 boxes per pallet. Please refer to the list below for packaging details of the SolliBloc modules, other sizes are available on request.

Length (mm)	Width (mm)	Thickness (mm)	Pieces per carton	Pieces per pallet
305	305	100	9	216
305	305	150	6	144
305	305	200	4	96
305	305	250	3	72
305	305	300	3	72

Product range

SolliBloc 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.