

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.

SoliBloc HP-grade

SoliBloc HP-grade is produced by spinning a high purity blend of Alumina and Silica. With a classification temperature of 2400°F it is recommended for use up till 2100°F.

SoliBloc ZR-grade

Rated at 2600°F classification temperature and commonly approved for applications in the Petrochemical and Iron and Steel industry where the standard 1300°C rated fiber is insufficient due to high process temperatures.

SoliBloc Fiber Modules are available in a standard dimension of 12x12 inch, but we also tailor based on engineering requirements such as 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 8 to 15 PCF. All products have been developed to meet requirements specific to the final application.

Type

Monolithic Fiber Modules from high temperature Refractory Ceramic Fiber.

Temperature range

Soli-Bloc HP-grade modules have a classification temperature of 2400°F.

Soli-Bloc ZR-grade modules have a classification temperature of 2600°F.

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 HP-grade			SolliBloc ZR-grade					
Grade			RCF			RCF					
Colour			white			white					
Classification temperature		°F	2400			2600					
Continuous use temperature		°F	2100			2400					
Density		PCF	10	12	15	10	12	15			
Thickness range		inch	4-12			4-12					
Permanent linear shrinkage	GB/T 17911	%									
			@2200°F			< 2.5					
			@2600°F			< 3.5					
Thermal conductivity	ASTM C201	BTU-in/hr-ft ² -°F									
			@ 500°F			0.51	0.50	0.49	0.54	0.51	0.49
			@ 1000°F			1.06	0.95	0.87	1.10	0.98	0.87
			@ 1500°F			1.68	1.56	1.42	1.77	1.63	1.42
			@ 1800°F			2.20	2.00	1.86	2.27	2.07	1.86
			@ 2000°F			2.56	2.36	2.22	2.65	2.45	2.24
Chemical composition,	GB/T 21114	%									
			SiO ₂			52-55			44-50		
			Al ₂ O ₃			45-47			35-38		
			ZrO ₂			-			15-17		
			Other			< 1			< 1		

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 12x12 inch is the most common size. In standard size the modules are packed in carton boxes of 12.5x12.5x38 inch (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	Width	Thickness	Pieces	Pieces
(inch)	(inch)	(inch)	per carton	per pallet
12	12	4	9	216
12	12	6	6	144
12	12	8	4	96
12	12	10	3	72
12	12	12	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.