

Introduction

The SoliFelt™ product range consists of latex bonded fiber board products which remain flexible after production. As a result, SoliFelt™ can be used in applications where the end user requires the strength of a board product with the flexibility and resiliency to ensure a mechanical seal. SoliFelt™ products are used for the production of gaskets and veneering modules. Available in both Low Bio Persistence (LBP) and Refractory Ceramic Fiber (RCF). The RCF grades are further available in two variants, with classification temperatures of 1260°C and 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.

SoliFelt™ X-grade

SoliFelt™ X-grade is manufactured from our Generation III, Ultra Low Shot RCF fiber and selected organic binders. As a result of the ULS technology, the SoliFelt™ X-grade is more smooth and strong. With a classification temperature of 1260°C, it is recommended for use up to 1100°C.

SoliFelt™ ZR-grade

For the most demanding applications, we proudly present SoliFelt ZR-grade with a classification temperature of 1430°C. In result, it provides a proven solution in applications operating continuously till 1300°C.

All SoliFelt products are manufactured from true Generation III, ultra clean and fine SoliWool fiber and organic binders. As a result the SoliFelt has a very smooth surface, close dimension tolerances, exceptionally low dust, high handling strength, better thermal insulating performance and offers greater resiliency after compression as a result of the superior fiber index.

Type

Flexible Felt from Refractory Ceramic Fiber (RCF) and organic binders.

Temperature range

SoliFelt™ X-grade has a classification temperature of 1260°C

SoliFelt™ ZR-grade has a classification temperature of 1430°C

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

Typical applications

- Gasket for expansion joints between pre-casted shapes and IFB linings
- Gasket for ladles and ingots in steel industry
- Veneering modules production
- General technical insulation of furnaces and technical installations

Benefits

- High fiber index
- Low shot technology
- Excellent insulation performance
- High handling strength
- Close dimensional tolerance
- Smooth surface and low dust
- Easy die-cutting for high temperature gaskets
- Excellent thermal stability



Properties measured	Standard	Unit	SoliFelt X-grade	SoliFelt ZR-grade
Grade			RCF	RCF
Colour			off-white	off-white
Classification temperature		°C	1260	1430
Continuous use temperature		°C	1100	1300
Density		kg/m ³	160	160
Loss on ignition		wgt%	< 8	< 8
Permanent linear shrinkage	EN 1094-7	%		
@ 1200°C			< 3	
@ 1400 C				< 3
Thermal conductivity	ASTM C201	W/mK		
@ 200°C			0,06	0,06
@ 400°C			0,09	0,09
@ 600°C			0,14	0,14
@ 800°C			0,20	0,20
@ 1000°C			0,27	0,27
Chemical composition (after firing)	ISO 12677	%		
SiO ₂			53-55	48-51
Al ₂ O ₃			44-46	34-37
ZrO ₂			-	14-17
Other			< 1	< 1

Contact

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The productlabel 'Soli', the company name 'Vulcor' and the 'ULS' technology are registered.

Availability

SoliFelt™ is available in standard dimensions of 1200x1000 mm, supplied in carton boxes with a height of approximately 120 mm (based on thickness). Please refer to the provided list for packaging details of SoliFelt in the standard carton boxes.

SoliFelt 1200x1000 mm		
Thickness	Per carton box	Boards per pallet
6	20	320
10	12	192
13	10	160
19	6	96
25	5	80

Product range

SoliFelt is part of an extensive product range supplied by Vulcor Insulation. Vulcor Insulation is supplying insulation solutions for 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.