

Introduction

The SoliPaper™ X-grade and ZR-grade are our standard range of Refractory Ceramic Fiber high temperature insulating paper products for gaskets and fillers in expansion joints. Using an optimized production process to manufacture uniform, lightweight, low shot and flexible paper-like products. Targeted to deliver the highest possible thermal insulation value and handling strength.

All products in the SoliPaper product range are manufactured from true Generation III, ultra clean and fine SoliWool fiber. As a result the SoliPaper has a very smooth surface, close dimension tolerances, exceptionally low dust, high handling strength, better thermal insulating performance and retains its flexibility after compression.

SoliPaper X-grade

SoliPaper X-grade is produced using our standard 2300°F rated RCF SoliWool bulk and special selected fillers. With a classification temperature of 2300°F it is recommended for continuous use up till 2000°F.

SoliPaper ZR-grade

SoliPaper ZR-grade is our high temperature RCF-Zr paper with a classification temperature of 2600°F providing a proven solution in applications operating continuously to temperatures of 2400°F.

SoliPaper is very flexible, but offers a high tensile strength thanks to the high fiber index. It is particularly suited to all applications requiring further processing (laminated composites, die-cutting, rolling, folding).

Next to the SoliPaper from RCF(-Zr) fiber we also offer an extensive range of low bio persistence grade (LBP) papers and special paper grades using PCW fibers up till 2950°F.

SoliPaper is available in two formats:

Standard rolls - are ideal for use in industrial furnaces, like expansion joints for insulating firebricks or castable linings.

Jumbo size rolls - are ideal for large quantity die-cut gaskets which can be used in the automotive –and domestic appliances industry, minimizing cutting waste.

Type

Paper from Refractory Ceramic Fiber (RCF) high temperature insulation fiber.

Temperature range

SoliPaper™ X-grade has a classification temperature of 2300°F.

SoliPaper™ ZR-grade has a classification temperature of 2600°F.

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

Typical applications

- Filler for expansion joints between pre-casted shapes and IFB linings
- Gasket for domestic appliances
- Thermal insulation in automotive heat shields
- Non-ferrous molten metal handling
- 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	SoliPaper™ X-Grade	SoliPaper™ ZR-Grade
Grade			RCF	RCF
Colour			white	white
Classification temperature		°F	2300	2600
Continuous use temperature		°F	2000	2400
Density		PCF	12-14	12-14
Loss on ignition		wgt%	< 8	< 8
Tensile strength		kPa		
Thickness 1 to 4 mm			≤ 400	≤ 400
Thickness 4 to 6 mm			≥ 300	≥ 300
Permanent linear shrinkage	EN1094-7	%		
@ 2200°F			≤ 3,5	
@ 2400°F			≤ 3,5	
Thermal conductivity	ASTM C-201	BTU·in/hr·ft²·°F		
@ 500°F			0.38	0.42
@ 1000°F			0.62	0.68
@ 1500°F			1.05	1.14
@ 1800°F			1.33	1.46
@ 2000°F			1.61	1.75
Chemical composition (after firing)	ISO12677	%		
SiO ₂			53-55	48-51
Al ₂ O ₃			44-46	34-37
ZrO ₂			-	14-17
Fe ₂ O ₃			< 0,3	< 0,2
H ₂ O			≤ 1	≤ 1
Other			< 0,3	< 0,25

Contact

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

Availability

SoliPaper is standard supplied in carton boxes or supplied as palletized jumbo rolls. Standard rolls are packed with 42 rolls per pallet. Please refer to the list below for dimensions of the standard rolls.

Length (mm)	Width (inch)	Thickness (mm)
Standard rolls		
3000	24	1/16
1500	24	1/8
750	24	1/4
Double width		
3000	24	1/16
1500	24	1/8
750	24	1/4

Product range

SoliPaper 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.