SOLIPAPER™ RCF

Datasheet English–Metric

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.

Next to the SoliPaper in Refractory Ceramic Fiber (RCF) grades we also offer the SoliPaper in a range of low bio persistence fibers and special paper grade using PCW fibers up till 1600°C .

SoliPaper X-grade

SoliPaper X-grade is produced using our standard 1260°C rated RCF SoliWool bulk and special selected fillers. With a classification temperature of 1260°C it is recommended for use up till 1100°C.

SoliPaper ZR-grade

Based on SoliWool ZR Bulk, the SoliPaper ZR-grade is providing a proven solution in applications operating continuously to temperatures of 1300°C.

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

SoliPaper is availabe in two main dimensions:

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.

All SoliPaper products are available in a wide range of dimensions and thicknesses. All products have been developed to meet requirements specific to the final application.

Type

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

Temperature range

SoliPaper X-grade has a classification temperature of 1260°C.
SoliPaper ZR-grade has a classification temperature of 1430°C.

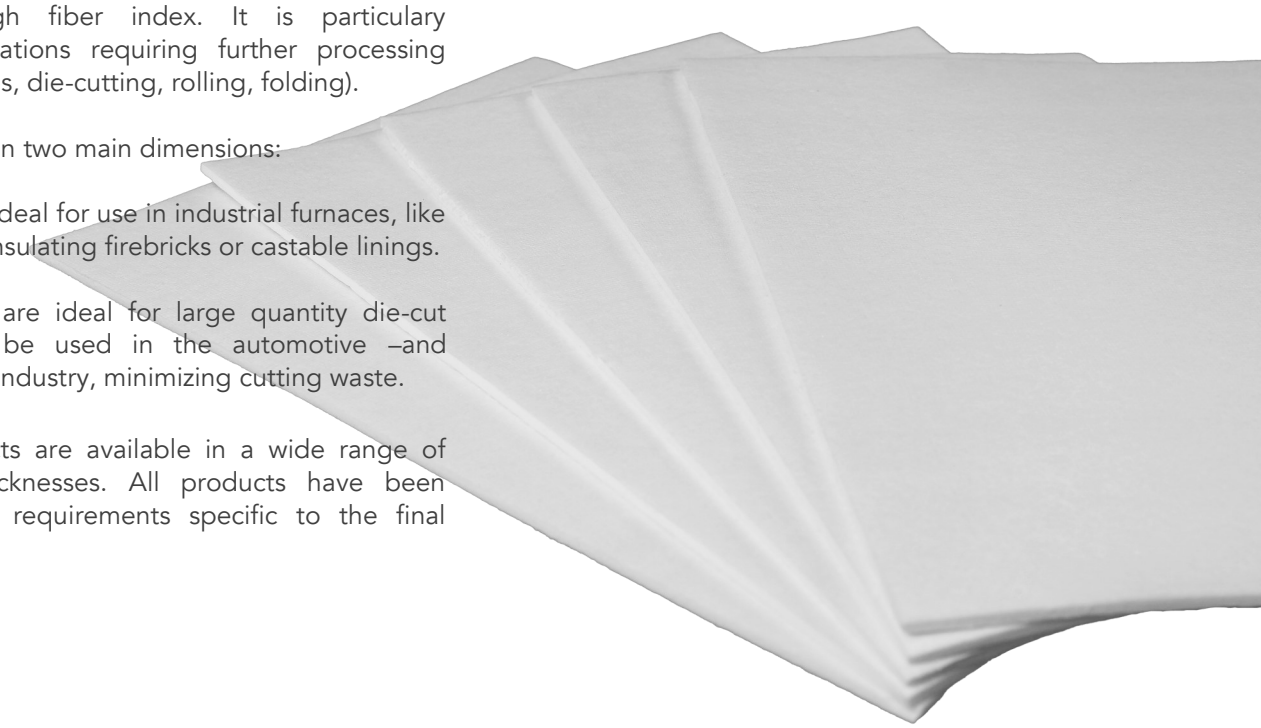
The maximum continuous use temperature provided on the datasheet is a guideline and only applicable in a clean oxidizing atmosphere.

Typical applications

- 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



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Properties measured	Standard	Unit	SoliPaper X-grade	SoliPaper ZR-grade
Grade			RCF	RCF
Colour			white	white
Classification temperature		°C	1260	1430
Continuous use temperature		°C	1100	1300
Density		kg/m3	192-210	192-210
Loss on ignition	GB/T6900	wgt%	< 8	< 7
Permanent linear shrinkage	GB/T 17911	%		
@1200°C			< 3	< 2
Thermal conductivity	ASTM C201	W/mK		
@ 200°C			0,05	0,06
@ 400°C			0,07	0,08
@ 600°C			0,10	0,11
@ 800°C			0,15	0,16
@ 1000°C			0,20	0,22
Chemical composition (after firing),	GB/T 21114	%		
SiO2			53-55	48-51
Al2O3			44-46	34-37
ZrO2			-	14-17
Fe2O3			< 0,4	< 0,2
Other			< 0,4	< 0,25

Availability

SoliPaper is standard supplied in carton boxes but can also be supplied on individually palletized jumbo rolls. All our paper are packed on a heat treated export pallet. Standard rolls are packed with 42 rolls per pallet. Please refer to the list below for dimensions of the standard rolls, other sizes and thicknesses are available on request.

Length (mm)	Width (mm)	Thickness (mm)
60000	610	1
30000	610	2
20000	610	3
15000	610	4
12000	610	5
10000	610	6
8500	610	7
7500	610	8
6000	610	10

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.

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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