

### Introduction

The SoliPaper PCW-grade, with a classification temperature of 2900°F, is the top end of our SoliPaper product range. Together with the SoliPaper in Refractory Ceramic Fiber and Low Bio Persistence Fiber we are offering complete range of high temperature papers to provide solutions in the widest range of applications, industries, and atmospheres possible.

SoliPaper PCW-grade is manufactured from a mixture of high alumina/ mullite fibers, special grade RCF fiber and specialty organic binders. 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. In this chemical composition the high alumina fiber is boosting the classification temperature where the special grade RCF fiber is providing additional strength.

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).

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 a mixture of high alumina (PCW) fibers and Refractory Ceramic Fiber (RCF) with an organic binder.

### Temperature range

**SoliPaper PCW-grade** has a classification temperature of 2900°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
- Separating and parting media for vacuum brazing applications
- Gaskets in furnaces with reducing atmospheres
- General technical insulation of furnaces and technical installations

### Benefits

- High fibre 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 PCW-grade
Grade			PCW/RCF
Colour			white
Classification temperature		°F	2900
Continuous use temperature		°F	2600
Density		PCF	11
Loss on ignition	GB/T6900	wgt%	< 8
Permanent linear shrinkage @2600°F	GB/T 17911	%	< 2
Thermal conductivity @ 500°F	ASTM C201	BTU·in/hr·ft <sup>2</sup> ·°F	0.38
@ 1000°F			0.61
@ 1500°F			0.92
@ 1800°F			1.20
@ 2000°F			1.42
Chemical composition (after firing), Al <sub>2</sub> O <sub>3</sub>	GB/T 21114	%	67
SiO <sub>2</sub>			32
ZrO <sub>2</sub>			-
Other			< 1

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### Availability

SoliPaper is standard supplied in carton boxes. All our paper are packed on a heat treated export pallet. Please refer to the list below for dimensions of the standard rolls, other sizes and thicknesses are available on request.

Length (inch)	Width (inch)	Thickness (inch)	Rolls per pallet
<b>Standard Rolls</b>			
6000	24	1/32	20
3000	24	1/16	20
1500	24	1/8	20
750	24	1/4	20

### 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 3<sup>rd</sup> 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.