



### Introduction

**SoliPaper™ PCW Blended grades are a clever way to provide high temperature paper solutions without the costs of pure PCW fiber based papers. SoliPaper PCW Blended grade are intended to provide solutions in the widest range of applications, industries, and atmospheres possible.**

By blending Polycrystalline Wool with our unique SoliWool HA-grade we make papers which arrive to classification temperatures up to 2900°F and maximum continuous use temperatures of 2600°F. In these chemical compositions the PCW fiber is boosting the classification temperature where our SoliWool HA-grade is providing additional strength.

#### **SoliPaper PCW35 HT-grade**

The standard version of the PCW blended grade paper is our SoliPaper PCW35 HT-grade. Manufactured from a mixture of SoliWool HA-grade, high alumina/ mullite fibers, and specialty organic binders. It provides a classification temperature of 2750°F and is advised for applications with a maximum continuous use temperature of 2500°F.

#### **SoliPaper PCW80 HT-grade**

Our top end SoliPaper is the SoliPaper PCW80 HT-grade. This paper is based on high alumina/ mullite fibers with just a minor percentage of SoliWool HA-grade to increase the strength. Tested for a classification temperature of 2900°F and advised for applications with a maximum continuous use temperature of 2600°F.

SoliPaper PCW Blended Grades are using organic binders which burn out on the first firing, starting at approximately 500°F.

SoliPaper PCW Blended grade products are known for their high strength, good machinability. They are a competitive solution in these applications where standard RCF papers are facing the limits of their safe continuous use.

### Type

Paper manufactured from a mixture of Polycrystalline Wool (PCW) fibers and Refractory Ceramic Fiber (RCF) with organic binder.

### Temperature range

**SoliPaper™ PCW35 HT-grade** has a classification temperature of 2750°F.

**SoliPaper™ PCW80 HT-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
- Gaskets in furnaces with reducing atmospheres
- General technical insulation of furnaces and technical installations

### Benefits

- High strength and good machinability
- Cost competitive alternative to PCW paper
- Excellent insulation performance
- Smooth surface and low dust
- Chemically resistant to most polutions
- Excellent thermal stability



Properties measured	Standard	Unit	SoliPaper™ PCW 35 HT-grade	SoliPaper™ PCW 80 HT-grade	
Grade			PCW/RCF	PCW/RCF	
Colour			white	white	
Classification temperature		°F	2750	2900	
Continuous use temperature		°F	2500	2600	
Density		PCF	13	12	
Loss on ignition		wgt%	< 8	< 8	
Permanent linear shrinkage	ISO 1094-7	%			
			@2600°F	< 2	
			@2900°F		< 2
Thermal conductivity	ASTM C-201	BTU·in/hr·ft²·°F			
			@ 500°F	0.38	0.38
			@ 1000°F	0.62	0.62
			@ 1500°F	0.92	0.92
			@ 1800°F	1.20	1.20
			@ 2000°F	1.42	1.42
Chemical composition (after firing),	ISO12677	%			
			Al2O3	54-57	61-63
			SiO2	42-46	37-39
			ZrO2	-	-
			Other	< 1	< 1

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## Availability

SoliPaper PCW is standard supplied in carton boxes. 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.

Length (inch)	Width (inch)	Thickness (inch)	Rolls per pallet
1500	24	1/16	42
750	24	1/8	42
375	24	1/4	42

## 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.