



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 1600°C and maximum continuous use temperatures of 1430°C. 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 1500°C and is advised for applications with a maximum continuous use temperature of 1350°C.

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 1600°C and advised for applications with a maximum continuous use temperature of 1430°C.

SoliPaper PCW Blended Grades are using organic binders which burn out on the first firing, starting at approximately 250°C.

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 1500°C.

SoliPaper™ PCW80 HT-grade has a classification temperature of 1600°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
- 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 PCW35 HT-grade	SoliPaper PCW80 HT-grade
Grade			PCW/RCF	PCW/RCF
Colour			white	white
Classification temperature		°C	1500	1600
Continuous use temperature		°C	1350	1430
Density		kg/m ³	210	180
Loss on ignition		wgt%	< 8	< 8
Permanent linear shrinkage	EN 1094-7	%		
@1400°C			< 2	
@1600°C				< 3
Thermal conductivity	ASTM C201	W/mK		
@ 200°C			0,05	0,05
@ 400°C			0,07	0,07
@ 600°C			0,10	0,10
@ 800°C			0,13	0,13
@ 1000°C			0,18	0,18
Chemical composition (after firing),	ISO12677	%		
Al ₂ O ₃			54-57	65-67
SiO ₂			42-46	33-35
ZrO ₂			-	-
Other			< 1	< 1

Contact

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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 (mm)	Width (mm)	Thickness (mm)
60000	610	1
30000	610	2
20000	610	3
15000	610	4
12000	610	5
10000	610	6

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.