

Introduction

SoliPaper™ High Temperature Series offers pure PCW and PCW-blended grades for the most demanding, high-temperature applications. Our SoliPaper™ High Temperature Series can be used to provide both cost-effective and high-quality solutions, suitable for a diverse range of applications, industries, and environments.

Our SoliPaper™ High Temperature can either be based on pure PCW fiber or a blend of PCW with our unique SoliWool HA-grade. These products are designed for continuous use at temperatures over 2300°F in clean atmospheres or when standard RCF papers or LBP fiber paper cannot be used due to temperature requirements in specialized atmospheres.

SoliPaper PCW35 HT-grade

SoliPaper PCW35 HT-grade is the most cost effective solution for applications where standard RCF fiber papers are reaching their practical use limits. Manufactured from a mixture of SoliWool HA-grade, premium quality PCW fibers and specialty organic binders. SoliPaper PCW35 HT-grade provides a classification temperature of 2750°F and is advised for applications with a maximum continuous use temperature of 2500°F.

SoliPaper PCW100 HT-grade

Our top end SoliPaper is the SoliPaper PCW100 HT-grade. This paper is manufactured from purely PCW fibers and a minimum quantity of organic binders. Tested for a classification temperature of 2950°F with much less than 2% shrinkage we can comfortably advise SoliPaper PCW100 HT-grade for applications with a maximum continuous use temperature of 2750°F.

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

Type

High Temperature insulation paper manufactured from either a mixture of Polycrystalline Wool (PCW) fibers and Refractory Ceramic Fiber (RCF), or pure Polycrystalline Wool (PCW) fibers with organic binder.

Temperature range

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

SoliPaper™ PCW100 HT-grade has a classification temperature of 2950°F.

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

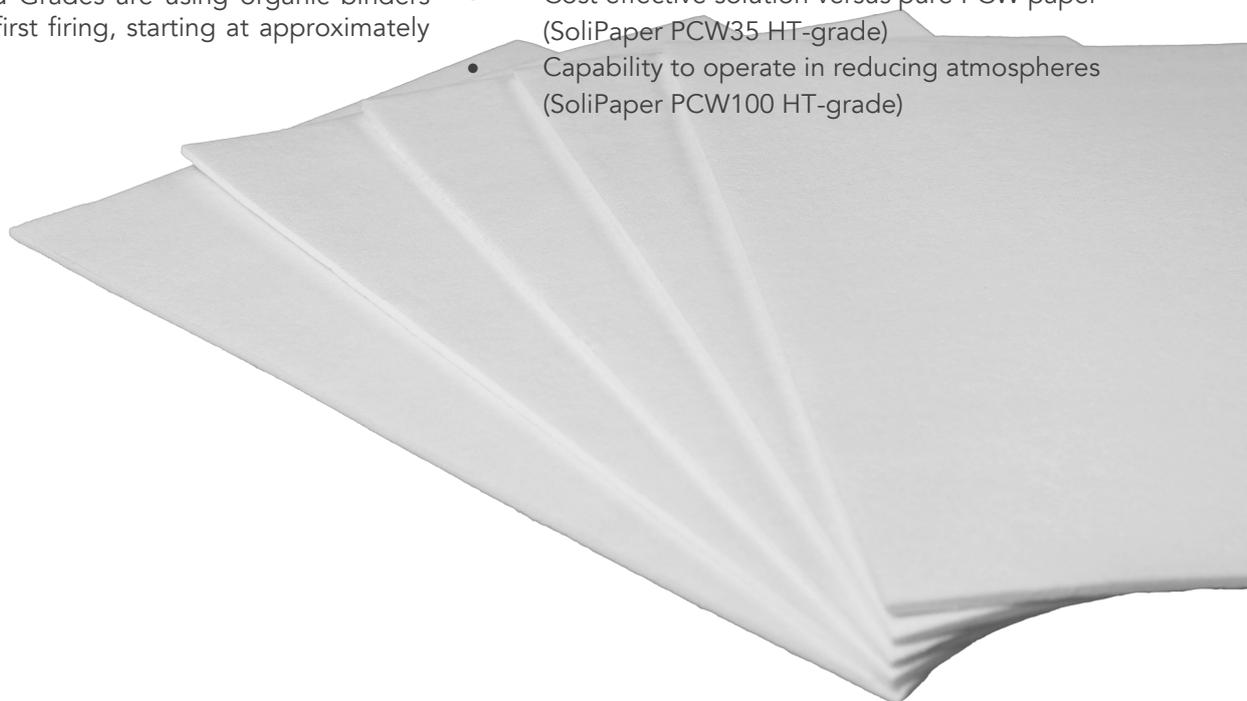
Typical applications

- Filler for expansion joints between pre-casted shapes and IFB linings
- Insulation in furnaces with low concentrations pollutions*
- Laboratory-, vacuum- and dental kilns requiring stability and high temperature performance
- General technical insulation of furnaces and technical installations

* ask Vulcor for advise on your specific application.

Benefits

- High strength and good machinability
- Excellent insulation performance
- Smooth surface and low dust
- Chemically resistant to most pollutions
- Excellent thermal stability
- Cost effective solution versus pure PCW paper (SoliPaper PCW35 HT-grade)
- Capability to operate in reducing atmospheres (SoliPaper PCW100 HT-grade)



| Properties measured | Standard | Unit | SoliPaper PCW35 HT-grade | SoliPaper PCW100 HT-grade |
|--------------------------------------|-----------|------------------|--------------------------|---------------------------|
| Grade | | | PCW/RCF | PCW |
| Colour | | | white | white |
| Classification temperature | | °F | 2750 | 2950 |
| Continuous use temperature | | °F | 2500 | 2750 |
| Density | | PCF | 13 | 11.5 |
| Mean fiber diameter | | µm | 2.5-5.5 | 5.5 |
| Loss on ignition | | wgt% | < 8 | < 6 |
| Permanent linear shrinkage | EN 1094-7 | % | | |
| @ 2600°F | | | < 2 | |
| @ 2932°F | | | | < 2 |
| Thermal conductivity | ASTM C201 | 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 | | | 1,26 | 1,20 |
| @ 2000°F | | | 1,46 | 1,42 |
| @ 2200°F | | | | 1,70 |
| Chemical composition (after firing), | ISO12677 | % | | |
| Al ₂ O ₃ | | | 54-57 | 72 |
| SiO ₂ | | | 42-46 | 28 |
| ZrO ₂ | | | - | - |
| Other | | | < 1 | < 1 |

Contact

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

Availability

SoliPaper High Temperature Series 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 High Temperature Series 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.