

### Introduction

**Our SoliPaper™ ULS® is setting a new standard for low shot low bio persistence fiber based paper products. Utilizing the Generation III, Ultra Low Shot, fibers we are able to offer you a paper with is differentiation on very smooth surface, higher mechanical strength and close dimensional tolerance. SoliPaper™ ULS® grade has a classification temperature of 1260°C and operating till 1100°C continuously.**

SoliPaper ULS is manufactured from true Generation III ultra clean and fine, 1260°C rated, SoliWool ULS fiber. SoliPaper ULS is very flexible, and offers a high tensile strength thanks to the high fiber index. As a result it is particularly suited to all applications requiring further processing (laminated composites, die-cutting, rolling, folding).

Utilizing an optimized production process we are able to create a product with a smooth surface, close dimension tolerances, exceptionally low dust, high handling strength, and an improved thermal insulating performance. SoliPaper ULS-grade is very flexible, and offers a high tensile strength as result of the high fiber index.

All products in the SoliWool ULS fiber product range, like the SoliPaper ULS, meet the requirements specified under NOTE Q of European Regulation 1272/2008. All SoliPaper ULS products are therefore exonerated from labelling requirements in Europe.

Next to the SoliPaper in the low bio persistence grade (LBP) we also offer a standard range of RCF(-Zr) Papers from 1260°C to 1430°C and special paper grades using PCW fibers up till 1600°C .

SoliPaper ULS is using organic binders which burn out on the first firing, starting at approximately 250°C.

SoliPaper ULS is available in two formats:

**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.

### Type

Paper from low bio persistence (LBP) high temperature insulation fiber.

### Temperature range

SoliPaper ULS has a classification temperature of 1260°C and is recommended for use to 1100°C continuously in 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
- Exonerated from labelling requirements



Properties measured	Standard	Unit	SoliPaper™ ULS®-grade
Grade			LBP
Colour			white
Classification temperature		°C	1260
Continuous use temperature		°C	1100
Density		kg/m3	190-230
Loss on ignition		wgt%	< 8
Tensile strength		kPa	
Thickness 1 to 2 mm			≥ 350
Thickness 2 to 4 mm			≥ 300
Thickness 4 to 6 mm			≥ 250
Thickness ≥ 6mm			≥ 200
Permanent linear shrinkage	EN 1094-7	%	
@1000°C			≤ 3
Thermal conductivity	ASTM C-201	W/mK	
@ 200°C			0,05
@ 400°C			0,07
@ 600°C			0,10
@ 800°C			0,13
@ 1000°C			0,19
Chemical composition (after firing),	ISO 12677	%	
SiO2			63-66
CaO			26-33
MgO			3-7
H2O			≤ 1
Other			< 0,8

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The productlabel 'Soli', the company name 'Vulcor' and the 'ULS' technology are registrated trademarks of Vulcor Insulation BV.

## Availability

SoliPaper™ ULS® is standard supplied in carton boxes or supplied as palletized jumbo rolls. Standard rolls of 610 mm wide are packed with 42 rolls per pallet, but we also offer our paper in 1220 mm wide. Please refer to the list below for dimensions of the standard rolls.

Length (mm)	Width (mm)	Thickness (mm)
60000	610/1220	1
30000	610/1220	2
20000	610/1220	3
15000	610/1220	4
12000	610/1220	5
10000	610/1220	6
8500	610/1220	7
7500	610/1220	8

## Product range

SoliPaper ULS 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.