

Introduction

SoliPaper™ HS is a unique high-strength paper in the SoliPaper product range. It is made from SoliWool™ ULS® fibers along with a small percentage of special high-strength fibers and selected fillers. SoliPaper™ HS offers up to 8 times higher tensile strength than standard low bio persistence fiber paper, delivering exceptional strength, mechanical resistance, a smooth surface, and low dust.

While SoliPaper HS is primarily based on 1260°C rated SoliWool ULS bulk fiber, it is recommended for continuous use temperatures up to 900°C due to the burnout of fillers and added high-strength fibers over time.

Manufactured from our Generation III ultra-clean and fine SoliWool ULS bulk fiber, SoliPaper HS has a smooth surface, precise dimensional tolerances, minimal dust, extremely high handling strength, superior thermal insulating performance and retains its flexibility after compression.

SoliPaper HS is an ideal choice for gasket production in domestic appliances and automotive heat shields, originally designed as a fire protection shield for EV battery pack thermal runaway. It combines high strength, low dust, and temperature resistance.

With its flexibility and high tensile strength, SoliPaper HS is targeted for applications requiring further processing such as laminated composites, die-cutting, rolling, and folding.

All products within the SoliWool ULS fiber range, including SoliPaper HS, meet the requirements specified under NOTE Q of European Regulation 1272/2008. Therefore, SoliPaper ULS products are exempt from labeling requirements in Europe.

SoliPaper HS is exclusively available in Jumbo-sized rolls, making it optimal for producing large quantities of die-cut gaskets, minimizing cutting waste in the automotive and domestic appliances industries.

Type

High Strength paper from low bio persistence (LBP) high temperature insulation fibers and special fillers

Temperature range

SoliPaper HS has a classification temperature of 1000°C and recommended for use to 900°C continuously in clean oxidizing atmosphere.

Typical applications

- Gasket for domestic appliances
- Thermal insulation in automotive heat shields
- Fire protection shield against thermal runaway (EV vehicles)
- 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 of carcinogenic classification under Note Q



Properties measured	Standard	Unit	SoliPaper™ HS-grade
Grade			LBP
Colour			white
Classification temperature		°C	1000
Continuous use temperature		°C	900
Density		kg/m ³	230-250
Loss on ignition		wgt%	< 10
Tensile strength			
Thickness 1 to 4 mm		kPa	> 1200
Thickness 4 to 6 mm		kPa	> 2400
Permanent linear shrinkage	EN 1094-1	%	
@ 900°C			< 3
Thermal conductivity	ASTM C201	W/mK	
@ 200°C			0,05
@ 400°C			0,07
@ 600°C			0,10
@ 800°C			0,13
Chemical composition (after firing)	ISO 12677	%	
SiO ₂			63-66
Al ₂ O ₃			0-2
CaO			25-32
MgO			3-7
Other			< 1,5

Contact

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

Availability

SoliPaper HS is available in palletized jumbo rolls, with 4 rolls per pallet. The rolls are equipped with hoist belts to ease the unloading process. Please refer to the provided list for the dimensions of the jumbo rolls.

Length (mm)	Width (mm)	Thickness (mm)
360000	1200	1
180000	1200	2
120000	1200	3
90000	1200	4
72000	1200	5
60000	1200	6

Product range

SoliPaper HS is part of Vulcor Insulation's extensive product range, which offers insulation solutions for a wide range of applications, from cryogenic to high temperature environments. All products supplied by Vulcor are either manufactured in-house or sourced from exclusive trusted third-party partners.

Technical support

Vulcor Insulation provides technical support to specifiers and customers, offering guidance on material selection, installation, and compliance with relevant regulations and performance standards.

For further information regarding product performance or to find the recommended product for your specific application, please reach out to the Vulcor Insulation team.