

Introduction

At the core of our SoliWool™ product line lies SoliBulk™, an extensive range of high-temperature bulk fibers offered in both Refractory Ceramic Fiber (RCF) and Low Bio Persistence (LBP) variations. These fibers serve as excellent raw materials for secondary processing, including the production of VF shapes, as well as infilling air gaps.

Our Ultra Low Shot fiber technology is enabling a higher fiber index and lower shot contents. In result, you will benefit from a higher yield in the further processing of the fiber, or enhance properties of your final product.

SoliBulk™ X-grade

SoliBulk X-grade is our standard RCF bulk fiber with a classification temperature of 1260°C. Thanks to the Ultra Low Shot technology this product is offering superior strength in secondary processing (Vacuum Forming).

SoliBulk™ ZR-grade

A combination of a high level of Zirconia, which is minimizing shrinkage, and the use of our Generation III spinning technology makes SoliBulk ZR a better solution for applications operating continuously till 1300°C.

SoliBulk™ ULS®-grade

SoliBulk ULS is specifically based on our Generation III, low bio persistence fiber, utilizing our advanced Ultra Low Shot technology. Classified for use up to 1260°C, it ensures exceptional performance and thermal insulation.

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

We offer all bulk fibers in different styles (**lubricated and unlubricated**) in line with the application requirements:

- **Chopped** - high density VF shapes and mastics
- **Short** - standard VF manufacturing and mastics
- **Medium** - infill for double walled chimneys
- **Long** - void/joint fillers, dry injected fibers and textiles

Type

Loose insulation wool from high temperature refractory ceramic fiber (RCF) or low bio persistence fiber (LBP)

Temperature range

SoliBulk™ X-grade has a classification temperature of 1260°C.

SoliBulk™ ZR-grade has a classification temperature of 1430°C.

SoliBulk™ ULS®-grade has a classification temperature of 1260°C.

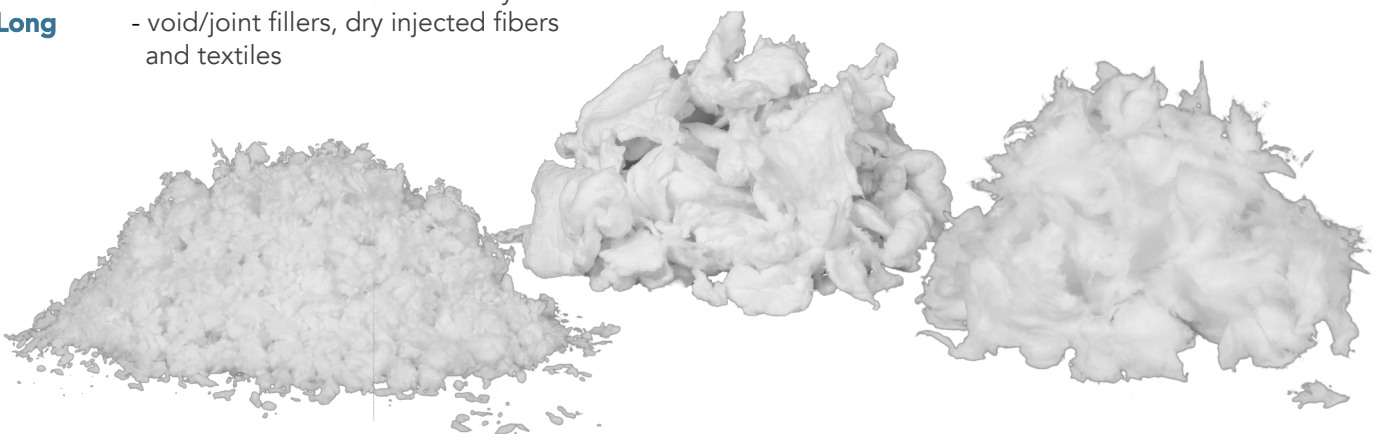
The maximum continuous use temperature provided on the datasheet is a guideline and only applicable in a clean oxidizing atmosphere.

Typical applications

- Raw material for Vacuum Forming process;
- Raw material for insulating castables, mastics and coatings;
- Filling and stuffing of voids and gaps in furnace lining;
- Injected/blown fiber in double wall chimneys;
- Long fibers for yarn production (textiles);
- General technical insulation of furnaces and technical installations.

Benefits

- Proven technical solution
- Low shot technology
- Higher yield in secondary processing
- Excellent insulation performance
- High handling strength
- Excellent thermal stability
- Resistant to thermal shock
- Exonerated from carcinogenic classification (SoliBulk ULS)



Contact

Vulcor Insulation BV
Wanraaij 4
6673 DN Andelst,
The Netherlands
T: +31 (0)488 700 202
E: sales.support@vulcor.com
www.vulcor.com

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

Properties measured	Standard	Unit	SoliBulk™ X-grade	SoliBulk™ ZR-grade	SoliBulk™ ULS®-grade
Grade			RCF	RCF	LBP
Colour			Off-white	white	white
Classification temperature		°C	1260	1430	1260
Continuous use temperature		°C	1150	1300	1100
Beaker value (fiber length), ml					
Chopped			60-100	60-100	60-100
Short (VF)			140-200	140-200	140-200
Medium			250-400	250-400	250-400
Long			450-600	450-600	450-600
Mean Fiber Diameter		µm	2-3.5	2-3.5	2.5-4
Shot contents	Jetsieve	> 45 µm	< 42%	< 42%	< 35%
Chemical composition, %	EN 12677				
SiO ₂			53-55	48-51	63-68
Al ₂ O ₃			44-46	34-37	-
ZrO ₂			-	14-17	-
CaO			-	-	26-33
MgO			-	-	3-7
Other			< 1	< 0.5	< 1

Yield

In Vacuum Forming production the shot typically sinks in the liquid mixture, resulting in less volume per kg of bulk fiber. With the Ultra Low Shot technology we typically improve the yield by 15-30 % over Generation I and Generation II products.

Availability

SoliBulk is packaged on our new state of the art production line which is targeted to minimize deviation of the fiber length throughout the packaging. SoliBulk is standard supplied with 30 plastic bags on pallets to maximize the quantity per container.

SoliBulk Packaging details			
Type	kg/bag	bag p/pallet	kg/pallet
Chopped	20	30	600
Short (VF)	18	30	540
Medium	15	30	450
Long	12	30	360

Specification

We offer our SoliBulk as standard product, and as engineered bulk. As engineered bulk we tailor our SoliBulk products with processing like deshotting and milling.

SoliBulk is offered in various types and styles. It is crucial to match the fiber to the application. For that reason, please always consult with our experts.

Product range

SoliBulk 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.