SOLIBULK™
LOW BIO PERSISTENCE

Datasheet English-Metric

Introduction

The low bio persistence grade of the SoliBulk™ product range is labelled our 'ULS®' grade. SoliBulk product range is an extensive range of high temperature bulk fibers which can be used as raw material for secondary processing (like VF shapes) or as infill for air gaps. The SoliBulk product range is available in both Refractory Ceramic Fiber and in Low Bio Persistence fiber.

All products offered in the SoliWool™ product range share the Ultra Low Shot technology which has been developed to achieve the highest possible thermal insulation value, provides a extremely high fiber index, and specifically for the SoliBulk to differentiate from other suppliers with a higher yield in secondary processing.

SoliBulk ULS-grade

SoliBulk ULS-grade wool is manufactured by an advanced advanced process of spinning a high purity blend of carefully selected raw materials. In addition to the enhanced thermal properties, large shot particles have been signicantly reduced making the product soft to touch and cause less skin irritation during handling.

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. All SoliBulk ULS fiber products are therefore exonerated from labelling requirements in Europe.

All grades of SoliBulk are available in different types designed for various applications:

- **Lubricated bulk** – used for yarn/ textile, joint filler;
- **Unlubricated bulk** – used for mastics and vacuum forming.

We offer all bulk fibers in different styles 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

Bulk from high temperature low biopersistance fiber insulation wool (LBP).

Temperature range

SoliBulk ULS-grade has a classification temperature of 1200°C.

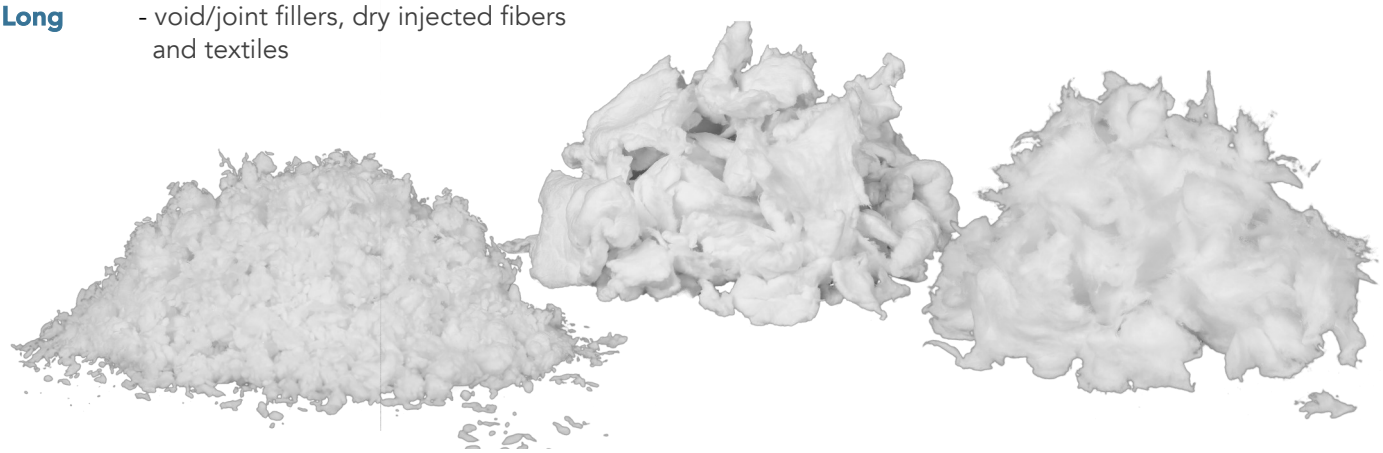
The maximum continuous use temperature provided on the datasheet is a guideline and only applicable in a clean oxidizing atmosphere.

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



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Properties measured	Standard	Unit	SoliBulk ULS-grade
Grade			AES
Colour			white
Classification temperature		°C	1200
Continuous use temperature		°C	1050
Beaker value (fiber length), ml			
	Chopped		60-100
	Short		200-275
	Medium		350-450
	Long		450-600
Mean Fiber Diameter		µm	2-4
Shot contents	Jetsieve	> 45 µm	< 35%
Chemical composition, %	GB/T 21114		
	SiO2		63-68
	CaO		26-33
	MgO		3-7
	Other		< 0.8

Yield
In many applications the effect of shot in bulk fiber is underestimated. In Vacuum Forming and Mastic production the shot is 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 ULS is packaged on our new state of the art production line which is targeted to minimize deviation of the fiber lenght 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	18	30	540
Medium	15	30	450
Long	12	30	360

Specification
SoliBulk ULS is offered in various types and styles. It is very important to match the fiber to the application. For that reason, please always consult with our experts about the type of bulk fiber prior to ordering. This will ensure the highest levels of satisfaction in the supplied product.

Product range
SoliBulk 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 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.

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