

Introduction

The SoliBulk product range consists of high temperature bulk fibers which are available in both Refractory Ceramic Fiber (RCF) and Low Bio Persistence fibers (LBP) where this datasheet is targeting our RCF grades. SoliBulk, pending the grade, can be used as raw material in secondary processing like Vacuum Forming, Mastics as well as infill for airgaps.

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 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

SoliBulk ZR-grade, with the addition of Zirconia to the blend of raw materials, provides a proven solution in applications operating continuously at temperatures of 1300°C. With a classification temperature of 1430°C this is our highest rated standard RCF bulk fiber.

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 Refractory Ceramic Fiber insulation wool.

Temperature range

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

SoliBulk ZR-grade has a classification temperature of 1430°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



Properties measured	Standard	Unit	SoliBulk X-grade	SoliBULK ZR-grade
Grade			RCF	RCF
Colour			off white	White
Classification temperature		°C	1260	1430
Continuous use temperature		°C	1150	1300
Beaker value (fiber length), ml				
	Chopped		60-100	60-100
	Short		200-275	200-275
	Medium		350-450	350-450
	Long		450-600	450-600
Mean Fiber Diameter		µm	2-4	2-4
Shot contents	Jetsieve	> 45 µm	< 42%	< 46%
Chemical composition, %	GB/T 21114			
	SiO2		53-55	48-51
	Al2O3		44-46	34-37
	ZrO2		-	14-17
	Fe2O3		< 0,4	< 0,2
	Na2O+K2O		< 0,4	-
	Other		-	< 0,25

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

This information is composed for marketing purposes and is accurate to the best knowledge of Vulcor Insulation BV. All values give are typical values, not guaranteed unless explicitly expressed. As Vulcor Insulation BV and its selected 3rd party partners strive to continually improve our products as means of continues development, properties may be subject to change without notice. Vulcor Insulation BV accepts no legal responsibility for use or reliance upon this data. For information regarding specific applications of the product please contact Vulcor Insulation BV.

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

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 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	18	30	540
Medium	15	30	450
Long	12	30	360

Specification

SoliBulk 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 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.