

Data sheet

ENGLISH

Cerafiber® and Cerachem® Bulk and Chopped Fibers

Cerafiber® Bulk is produced from a high purity blend of alumina and silica by fiberisation of melt by the spinning process. Cerafiber Bulk is rated to 1300°C (2400°F).

Cerachem® Bulk is produced from a blend of alumina, silica and zirconia by fiberisation of melt by the spinning process. Cerachem fibers are designed to resist excessive shrinkage at elevated temperatures and are rated to 1400°C (2600°F).

Based on the utilisation of pure raw materials and best spinning technology on the market, we are offering a wide range of Bulk and Chopped Fibres available in a variety of lengths, mean diameters, and chemistries with optimised characteristics to suit a wide variety of applications. Cerafiber® and Cerachem® Bulk are available as lubricated and unlubricated products.

A comprehensive range of Engineered Fibers is based on Thermal Ceramics' extensive family bulks. Removing unfiberised shot content, sizing the fibers and applying surface coatings by various techniques allow specific fiber requirements to be tailored for customer applications. Typical applications for Engineered Fibers include plastic reinforcement, metal matrix composites and automotive applications.

Cerafiber® and Cerachem® Bulk provide the basis for the entire family of ceramic fibres converted products such as boards, Kaowool Vacuum Formed shapes as well as papers and felts. Please refer to the individual converted product datasheets for further details.

Classification temperature

Cerafiber® bulk: 1300°C (2400°F)

Cerachem® bulk: 1400°C (2600°F)

The maximum continuous use temperature depends on the application. Unaffected by most chemicals except strong alkalis, phosphoric acid, hydrofluoric acid and molybdenum. If wet by oil or water, thermal and physical properties will be fully restored after drying. For further advice please contact your local Morgan Thermal Ceramics partner.

Features

- Excellent insulating performance
- Excellent thermal shock resistance
- Low heat storage capacity
- Different compositions, grades and forms to meet a variety of needs

Applications

- Expansion joints
- Low mass kiln cars
- Tube seal fabrication
- Thermal and acoustical insulation
- Filtration media
- Reinforcement and filler for plastics, resins and paints
- Fillers for mastics, cements
- Raw materials for vacuum formed boards and shapes, felts and papers



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Metric information

Cerafiber® and Cerachem® Bulk and Chopped Fibers

	Cerafiber® Bulk	Cerachem® Bulk
Classification temperature, °C (°F)	1300 (2400)	1400 (2600)
Maximum continuous use temperature, °C (°F)	1150 (2150)	1300 (2400)
Colour	White	White
Mean Fiber Diameter (µm)	2.5	3
Chemical composition, %		
	SiO ₂	54
	Al ₂ O ₃	46
	ZrO ₂	-
	Leachable chlorides	Trace
	Others	Trace
		50
		35
		15
		Trace
		Trace

Availability and Packaging

Thermal Ceramics Bulk fibers are available as unlubricated product in 70 kg bales, 8 bales per pallet (560 kg per pallet).

Cerafiber® and Cerachem® bulk and chopped fibers are available in bags with the following packaging :

Type	Fibre code	Bag weight kg	Bags per pallet	Lubrication
Cerafiber®	Code 520 bulk	20	21	Yes
	Code 10 chopped	20	21	No
Cerachem®	Code 51 bulk	20	21	Yes
	Code 50 chopped	20	21	No

Contact

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