



# Cerafiber<sup>®</sup>, Cerachem<sup>®</sup> Bulks

## Product Data Sheet

### Product Description

Cerafiber Bulk is produced from a high purity blend of alumina and silica and is rated to 1260°C (2300°F).

Cerachem Bulk is produced from a blend of alumina, silica and zirconia and designed to resist excessive shrinkage at elevated temperatures and are rated to 1430°C (2600°F).

Our wide range of bulk and chopped fibres is resistant to most types of chemical attack. They are lightweight, strong and feature a low heat storage capacity for effective energy savings and excellent thermal shock resistance for use in difficult environments.

### Features

- Excellent resistance to thermal shock
- Fibres are opaque to infrared and so maintain their low thermal conductivity to high temperature
- Fibres absorb very little energy on heating
- Fibres are high purity and highly corrosion resistant
- Fibres are highly resilient

### 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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	Cerafiber Bulk	Cerachem Bulk
Colour	White	White
Classification Temperature, °C (°F), EN1094-1 (2008)	1260 (2300)	1430 (2600)
Continuous Use Temperature, °C (°F)	1180 (2150)	1350 (2460)
Melting Temperature, °C (°F)	1760 (3200)	1760 (3200)
Specific Heat, kJ/kg•°C @ 980°C (BTU/lb•°F @ 1800°F)	1.13 (0.27)	1.13 (0.27)
Specific gravity, g/cm <sup>3</sup>	2.5	2.75
Average Fibre Diameter, µm	2.2 - 2.8	2.5 - 3.2
Fibre Index, %	48 - 58	48 - 58
<b>Chemical Analysis, %</b>		
Alumina, Al <sub>2</sub> O <sub>3</sub>	42 - 48	33 - 37
Silica, SiO <sub>2</sub>	52 - 58	48 - 52
Zirconium oxide, Zr <sub>2</sub> O <sub>3</sub>	-	13 - 17
Other	trace	trace

### Product Availability

Cerafiber and Cerachem Bulk Fibres are manufactured globally, but fibre grades vary by region. Please reference these tables and contact your regional Morgan Advanced Materials - Thermal Ceramics representative to provide specific packaging available for your local business needs.

Fibre Grade	111	112	HM-12	HM-25	HM-50
Region of manufacture	Americas				
Fibre description	Compressed bulk		Hammer-Milled, Short	Hammer-Milled, Medium	Hammer-Milled, Long
Lubrication	Yes	No	No	No	No

Fibre Grade	Bulk	Bulk	Bulk	G25	G6
Region of manufacture	Asia		Europe		
Fibre description	Compressed bulk	Compressed bulk		Chopped, Medium	Chopped, Short
Lubrication	Yes/No	Yes	No	No	No

Whilst the values and application information in this datasheet are typical, they are given for guidance only. The values and the information given are subject to normal manufacturing variation and may be subject to change without notice. Morgan Advanced Materials – Thermal Ceramics makes no guarantees and gives no warranties about the suitability of a product and you should seek advice to confirm the product's suitability for use with Morgan Advanced Materials - Thermal Ceramics.