

Cerafiber®
Cerachem® Fiber
Cerachrome® Fiber



Material Type: Bulk refractory fibres

Classification Temperature

Cerafiber® : 1260°C
Cerachem® Fiber : 1425°C
Cerachrome® Fiber : 1425°C

Description

Cerafiber®: Spun refractory fibres, made from electrically melted alumina and silica.

Cerachem® Fiber: Spun refractory fibres, made from electrically melted alumina, silica and zirconia.

Cerachrome® Fiber: Spun refractory fibres, made from electrically melted alumina, silica and chromia.

All three fibres are resistant to chemical attack, except for hydrofluoric and phosphoric acids and strong alkalies.

Maximum Use Temperature

The maximum use temperature depends on the application. Refer to our company for advice.

Available Grades

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| <ul style="list-style-type: none"> - Cerafiber® 10 - Cerachem® Fiber 50 - Cerachrome® Fiber 40 | <p>Unprocessed, long, unlubricated fibre. Raw material for vacuum forming processes.</p> |
| <ul style="list-style-type: none"> - Cerafiber® 11 | <p>Unprocessed, long, unlubricated fibre of low shot content. Raw material for woven products.</p> |
| <ul style="list-style-type: none"> - Cerafiber® 520 - Cerachem® Fiber 51 - Cerachrome® Fiber 41 | <p>Long, lubricated fibre for packing expansion and void areas in refractory constructions.</p> |

Features

- Excellent thermal stability; resist devitrification at high temperature.
- Low thermal conductivity.
- Excellent thermal shock resistance.
- High chemical stability.
- Contain no binders or corrosive agents.
- Resilient up to high temperatures.
- Low heat storage capacity.
- Excellent sound absorber.

Applications

- Raw material for the manufacturing of finished products such as boards, paper, shapes, yarns etc.
- Loose insulating fill for complex spaces and areas where access is difficult.
- Packing expansion joints.
- Packing material for temporary repair of insulation.
- Fibre reinforcement for insulating concretes and cements.
- Precursor for engineered fibres.

Main Properties

		Cerafiber®	Cerachem® Fiber	Cerachrome® Fiber
• Classification temperature	°C	1260	1425	1425

Properties Measured at Ambient Conditions (23°C/50% RH)

• Colour		white	white	blue/green
• Specific gravity (kg/dm ³)		2.65	2.65	2.65
• Fibre diameter (average)	micron	3.5	3.5	3.5

• Specific heat capacity:

540 °C	kJ/kg.K	1.05	1.05	1.05
1090 °C	kJ/kg.K	1.13	1.13	1.13

Chemical Composition

Al ₂ O ₃	%	46.5	34.9	42.6
SiO ₂	%	53.3	50.0	54.3
Cr ₂ O ₃	%	-	-	2.8
ZrO ₂	%	-	15.2	-
Fe ₂ O ₃ + TiO ₂	%	0.15	0.15	0.15
CaO + MgO	%	0.05	0.09	0.10
Na ₂ O + K ₂ O	%	0.10	0.10	0.10

Availability and Packaging

All bulk fibres are delivered in cartons of 20 kg or bales of 60-80 kg.

The values given herein are typical average values obtained in accordance with standard test methods and subject to normal manufacturing variations. They are supplied as technical data and may change without notice. Contact our company to obtain detailed information.

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