CCEWOOL Thermomax Inc.
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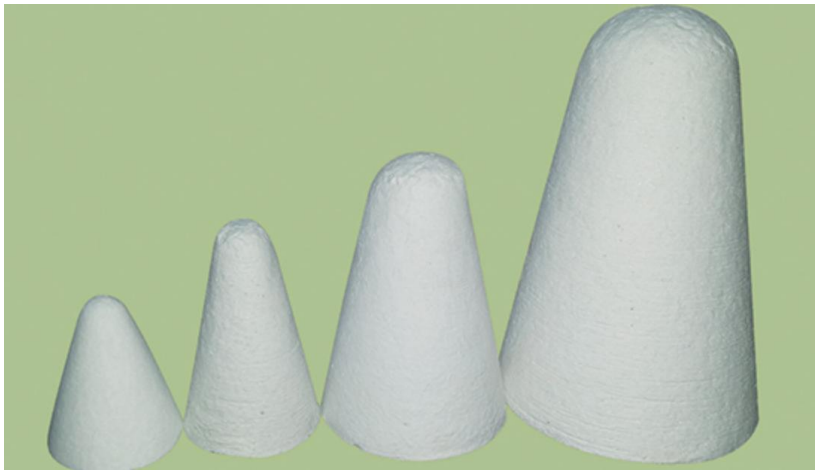
CCEWOOL® Low Biopersistent Fiber Shapes



Temperature Grade: 1200℃ (2192℉), 1300℃ (2372℉)
CCEWOOL® Low Biopersistent Fiber Shapes are made from a blend of soluble fiber blanket, organic, and inorganic binders to form a rigid product. Our CCEWOOL® Low Biopersistent Fiber Shapes can come into direct contact with fire and can be custom-made into various shapes according to customer-provided drawings. It has an extremely low thermal conductivity, low heat storage capacity, and excellent resistance to thermal shock. During use, the product exhibits good wear resistance and resistance to spalling, and it is not wetted by most molten metals. It possesses a soluble test certificate from the European Fraunhofer Laboratory.

Characteristics:

Can be made into various of complex shapes, high dimension accuracy.
Contact with flame directly,no odor and volatile gases at high temperatures
High mechanical strength,resistance to gas flow.
Low shrinkage,low thermal conductivity.
Excellent strength in high temperature and thermal stability.

Application:

Industrial kilns observation hole, thermometer hole;
Industrial furnace burner brick;
Industrial furnace door;
Sump and launder for aluminum products industry;
Heat insulation for thermal radiation in civil and industrial heating device;
Nozzle and door sealing for the industrial furnace;
Non-ferrous metal molten channel;
Lining for pad,cap,of found,electrical equipment connect gaskets.

TDS

CCEWOOL® Low Biopersistent Fiber Shapes		
Classification Temperature (℃)	1200℃(2192℉)	1300℃(2372℉)
Color	Light Bluish	Light Bluish
Density (kg/m³)	300-350	300-350
Modules of Rupture (MPa)	≥0.25	≥0.25

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Compressive Strength (MPa, 10% relative deformation)	0.15	0.15
Loss of Ignition (%)	≤7	≤7
Permanent Linear Shrinkage (%)	1100℃ x 24h ≤2.0	1260℃ x 24h ≤2.0
Thermal Conductivity (W/m·K)		
200℃	0.05	0.05
400℃	0.08	0.07
600℃	0.1	0.1
800℃	0.12	0.11
1000℃	0.14	0.14

CCEWOOL® Ceramic Fiber Shapes

Temperature Grade: 1260℃ (2300℉), 1400℃ (2550℉), 1430℃(2600℉)
CCEWOOL® Ceramic Fiber Shapes is made from high quality refractory ceramic fiber bulk as raw material, through vacuum forming process. This product is developed into unshaped product with both superior high-temperature rigidity and self-supporting strength. We produce CCEWOOL® Unshaped Vacuum Formed Ceramic Fiber to fit for the demand for some specific industrial sector production processes. Depending on performance requirements of the unshaped products, different binders and additives are used in production process. All unshaped products are subject to relatively low shrinkage in their temperature ranges, and maintain a high thermal insulation, lightweight and shock resistance. The non-burnt material can easily be cut or machined. During use, this product shows excellent resistance to abrasion and stripping, and can not be wetted by most molten metals.

Characteristics:

Can be made into various of complex shapes, high dimension accuracy.
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High mechanical strength,resistance to gas flow.
Low shrinkage,low thermal conductivity.
Excellent strength in high temperature and thermal stability.

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Application:

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Industrial furnace burner brick;
Industrial furnace door;
Sump and launder for aluminum products industry;
Heat insulation for thermal radiation in civil and industrial heating device;
Nozzle and door sealing for the industrial furnace;
Non-ferrous metal molten channel;
Lining for pad,cap,of found,electrical equipment connect gaskets.

TDS

CCEWOOL® Ceramic Fiber Shapes					
fireproof chimney pipe insulation		1260S	1260HPS	1400LZ	1430HZ
Density(KG/m3)		280-400	280-400	280-400	280-400
320kg/m3/at(ºC/24h) Linear Shrinkage Rate(%)		≤1.5 (1000)	≤1.5 (1000)	≤1.5 (1100)	≤1.5 (1200)
Flexural strength(mpa)		>=0.6	>=0.6	>=0.6	>=0.6
Thermal Conductivity Rate(W/m.k)	400ºC	0.08	0.08	-	-
	600ºC	0.15	0.15	0.14	0.12
	800ºC	0.2	0.19	0.18	0.16
	1000ºC	-	-	0.21	0.19
Chemical Composition (%)	Al2O3	44-46	47-49	52-55	38-43
	Al2O3+SiO2	≥99.0	≥99.0	≥99.0	-
	ZrO3	-	-	-	15-17
	Other	≤1.0	≤1.0	≤1.0	≤1.0