

CCEWOOL® Ceramic Bulk Fiber



Classification Temperature: 1100°C (2012°F),
1260°C (2300°F), 1400°C (2550°F), 1430°C
(2600°F)

Chemical Composition: Alumina, Silica

CCEWOOL® Ceramic Bulk Fiber is manufactured from high-purity alumina and silica. After being fully melted in a high-temperature electric furnace, the material is fiberized by high-pressure blowing or spinning processes into stable and uniform refractory fibers. The product is lightweight, with low thermal conductivity and low heat storage, and

offers excellent thermal shock resistance, helping reduce heat loss in high-temperature equipment. It also provides excellent chemical stability and can resist most corrosive media except hydrofluoric acid, phosphoric acid, and strong alkalis.

CCEWOOL® Ceramic Bulk Fiber is a fully inorganic fiber material that does not carbonize, smoke, or emit fumes during heating. It is suitable for insulation and filling applications in complex spaces, components, and formed structures in both commercial and industrial fields.

With its stable fiber structure and excellent processing adaptability, CCEWOOL® Ceramic Bulk Fiber can be used not only directly for high-temperature insulation filling, but also as a high-quality raw material for Fabrication processing. It can be further processed into monolithic spray materials, vacuum formed components, custom-shaped parts, and other monolithic high-temperature insulation products. This enables it to better meet the requirements of industrial furnace linings, equipment sealing, and complex insulation systems for post-processing performance, forming consistency, and system integration.

Characteristics:

Low thermal conductivity;
Low heat storage;
Low thermal shrinkage;
Excellent thermal shock resistance;
Excellent chemical corrosion resistance;
Completely inorganic and asbestos-free;
Lightweight and flexible, with good resilience;
High strength and excellent tensile performance;
Easy to process and install;
Excellent sound absorption performance.

Applications:

Expansion joints and movement joints;
Pipeline seals and high-temperature sealing structures;
Lightweight kiln cars;
Combustion chambers of commercial and domestic boilers;
Furnace insulation filling around observation tubes, ports, expansion joints, and masonry cracks;
Raw material for vacuum formed shaped products;
Raw material for ceramic fiber board, paper, and other fiber products;
Reinforcing material and filler for plastics, resins, and coatings;
Filler for sealants, cements, and refractory materials;
High-temperature filtration media.

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CCEWOOL® Ceramic Fiber Bulk					
Description	1100	1260S	1260 HPS	1400	1430 HZ
Fiber Diameter(μm)	3.0-5.0				
Chemical Composition(%)					

Al ₂ O ₃	≥43	≥44	≥44	≥52	≥35
SiO ₂	≥52	≥52	≥55	≥47	≥49
ZrO ₂	-	-	-	-	≥15
Color	White	White	White	White	White
Shot Content(%)	≤15	≤15	≤15	≤15	≤12
Packing	Braided Bag/ Carton				