

Automotive - Friction

CCEWOOL® Ceramic Fiber Friction Bulk is used for friction applications in transportation.



CCEWOOL® Ceramic Fiber Friction Bulk



Temperature degree: 1260°C (2300°F)

CCEWOOL® Ceramic Fiber Friction Bulk is a combination of refractory ceramic fibers and binding agents, which are designed to improve its characteristics. This type of friction material is manufactured by blending refractory ceramic fibers with organic and inorganic binders. The production process involves mixing, molding,

forming, curing, and sintering.

The final result is a material that is capable of withstanding extremely high temperatures and pressure without losing its functionality. It is used extensively in brake systems, clutches, and other friction applications due to its excellent frictional performance, wear resistance, and low dust emissions.

Characteristics:

1. High heat resistance: Refractory ceramic fiber friction materials can withstand temperatures up to 1200°C, making it an ideal material for use in high-temperature applications.
2. Low wear rates: This material has excellent wear resistance, which makes it highly suitable for use in applications that require long-lasting and durable materials.
3. Low noise: Refractory ceramic fiber friction material is virtually silent during operation, making it an ideal choice for reducing noise and vibration levels.

4. Low dust emissions: These materials are designed to generate low levels of dust during operation, reducing exposure to harmful particles.

5. High chemical resistance: Refractory ceramic fiber friction material is highly resistant to chemical corrosion, ensuring that it can work effectively in harsh environments.

Application:

1. Automotive brakes: Refractory ceramic fiber friction material is widely used in automotive brake systems due to its excellent performance and durability. It offers smoother operation, lower noise levels, and reduced wear and tear compared to other friction materials.

2. Industrial clutches: These materials are highly preferred in industrial clutch applications due to their high resistance to heat and wear. They offer excellent frictional performance, reducing slippage during high-demand operations.

3. Construction machinery: Refractory ceramic fiber friction material is widely used in construction machinery such as cranes and excavators because they can withstand high loads and stresses.

TDS

CCEWOOL® Ceramic Fiber Friction Bulk	
Classification Temperature (°C)	1260
Operation Temp(°C)	≥1000
Fiber Diameter(μm)	2-4
Chemical Composition(%)	
Al ₂ O ₃	≥45
SiO ₂ +Al ₂ O ₃	≥97
ZrO ₂	-
Color	white or grayish-white
Shot Content(%)	≤3
Packing	Braided Bag