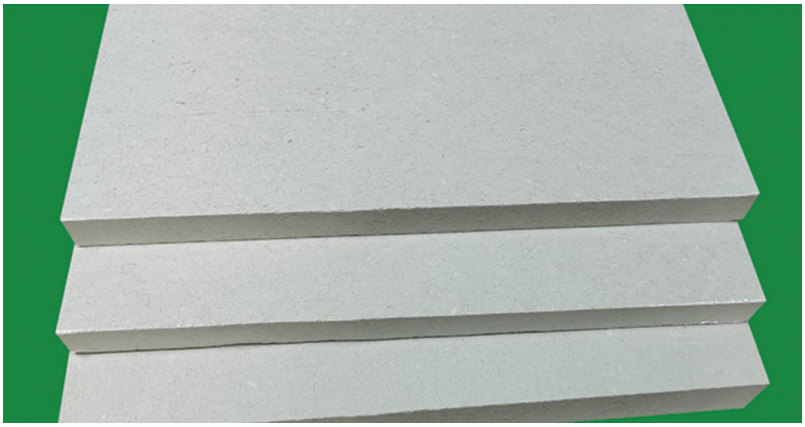
CCEWOOL® Super Duty Ceramic Fiber Board



Classification Temperature: 1260°C (2300°F)

Chemical Composition: Alumina, Silica

CCEWOOL® Super Duty Ceramic Fiber Board is a high-performance refractory insulation board designed for high-strength and heavy-load applications. It is manufactured from high-purity refractory ceramic fiber bulk using automated forming and high-temperature curing processes, providing significantly improved mechanical strength and load-bearing capacity while maintaining low thermal conductivity and excellent insulation performance.

At room temperature, the board can withstand loads up to 80 t/m², and under high-temperature operating conditions it can still support loads of ≥40 t/m². Its compressive strength is significantly higher than that of conventional ceramic fiber board, helping maintain structural integrity and dimensional stability under long-term high-temperature, heavy-load, and mechanical stress conditions.

CCEWOOL® Super Duty Ceramic Fiber Board is particularly suitable for furnace bottoms, heavy-duty furnace linings, and load-bearing insulation layers where both thermal insulation and structural support are required.

Characteristics:

Excellent load-bearing capacity;
Excellent thermal stability;
Excellent thermal shock resistance;
Low thermal conductivity;
Low heat storage;

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Easy to machine, cut, and form.

Applications:

Backup insulation for ladles, tundishes, torpedo cars, and iron runners;

Load-bearing insulation for kiln cars;

Load-bearing insulation at the bottom of aluminum electrolytic cells;

Bottom tube cover plates for reformers;

High-temperature flange gaskets for heat-treatment furnaces.

TDS

CCEWOOL® Super Duty RCF Board		
Description	600 Super Duty Board	900 Super Duty Board
Density (kg/m*)	600	900
Modules of Rupture (MPa)	≥2.0 Before Firing	≥4.0 Before Firing
	≥0.8 Afer Firing	≥1.2 Afer Firing
Compressive Strength	≥0.8 Before Firing	≥4.0 Before Firing
(MPa,10% relative deformation)	≥0.4 Afer Firing	≥2.5 Afer Firing
Permanent Linear Shrinkage (%)	1100°CX24h≤3.0	1100°CX24h≤3.0
Thermal Conductivity (W/m·K)		
300°C	0.08	0.12
400°C	0.09	0.13
500°C	0.1	0.14