

CCEWOOL® 650°C Calcium Silicate Board



Temperature degree: 650°C (1202°F)

CCEWOOL® 650°C calcium silicate board is a new type white and hard insulation material, characterized with lightweight, high strength, low thermal conductivity, high temperature resistance, corrosion resistance, cutting. The refractoriness is 650C, can be widely used in power plant, refining, petrochemical, building, vessel filled. The general thickness is

between 25mm to 120mm, density ranges from 250kg/m³ to 300kg/m³.

Characteristics:

On top of light weight, low thermal conductivity, high rupture and compressive strengths, calcium silicate board won't distort even in contact with water, with other features like long service life, sawing-worthiness, easy processing, non-toxics, non-corrosiveness to piping and equipment, etc..

Application:

Mainly used as insulation material for thermal equipment and piping in the power, chemical, metallurgy, petrochemical, textile and light industries, as well as insulation for building, ship and train.

TDS

CCEWOOL® 650°C Calcium Silicate Board		
Classification Temperature	650°C (1202°F)	650°C (1202°F)
Bulk Density(kg/m ³)	230±10	280±10
Rupture Strength (Mpa)	0.323	0.323
Compressive Strength (Mpa)	1.4	1.4
Thermal Conductivity (W/m.k.)		
	200C	0.07
	400C	0.1
Linear Shrinkage(%)		
	@1000°C, 16hrs	≤2
Size (mm)	500x500x50~120; 600x300x50~120	500x500x25~50; 600x300x25~50
Packing	Carton or wooden pallet	

CCEWOOL® 1000°C Calcium Silicate Board



Temperature degree: 1000 °C (1832 °F)

CCEWOOL® 1000 °C calcium silicate board is a new type white and hard insulation material, characterized with lightweight, high strength, low thermal conductivity, high temperature resistance, corrosion resistance, cutting. The refractoriness is 1000 °C, can be widely used in power plant, refining, petrochemical, building, vessel filed. The general thickness is between

25mm to 120mm, density ranges from 250kg/m³ to 300kg/m³.

Characteristics:

On top of light weight, low thermal conductivity, high rupture and, compressive strengths, calcium silicate won't distort even in contact with water, with other features like long service life, sawing-worthiness, easy processing, non-toxics, non-corrosiveness to piping and equipment, etc..

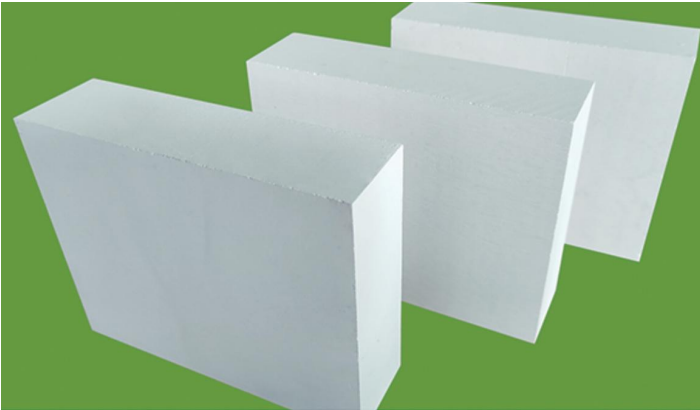
Application:

Mainly used as insulation for thermal equipment and piping in the power, chemical, metallurgy, petrochemical, textile and light industries, as well as insulation for building, ship and train.

TDS

CCEWOOL® 1000°C Calcium Silicate Board		
Classification Temperature	1000 °C (1832 °F)	1000 °C (1832 °F)
Bulk Density (kg/m ³)	230±10	280±10
Rupture Strength (Mpa)	0.55	0.55
Compressive Strength (Mpa)	1.4	1.4
Thermal Conductivity (W/m.k.)		
200C	0.058	0.058
400C	0.095	0.095
Linear Shrinkage(%)		
®1000 °C, 16hrs	≤1.6	≤2
Size (mm)	1000x500x50~120; 500x500x50~120	1000x500x25~50; 500x500x25~50
	Carton or wooden pallet	

CCEWOOL® HD Calcium Silicate Board



Temperature Grade: 1000°C (1832°F)

CCEWOOL High-Density Calcium Silicate Board is a specialized refractory board developed for the non-ferrous metal industry, with a density up to 1000kg/m³, compressibility up to 20Mpa, making it highly suitable for high-temperature areas that need to withstand certain pressures. And it has an exceptionally long service life. CCEWOOL High-Density Calcium Silicate Board comes in two types: glass fiber-reinforced and carbon

fiber-reinforced, and can be custom-made into various shapes according to customers' drawings.

CCEWOOL® High-Density Calcium Silicate Board is characterized by its high resistance to metal melts wetting, especially non-ferrous metal melt and glass melt. It finds wide application in demanding environments that requires high temperature resistance, high thermal shock resistance, and high corrosion resistance.

CCEWOOL® High-Density Calcium Silicate Board boasts low thermal conductivity, excellent thermal stability, high resistance to infiltration and corrosion, as well as outstanding machining properties. It can be used to manufacture various components for the non-ferrous metal industry, including but not limited to: crucibles, runners, hot top rings, brake pins, lugs, floaters, continuous casting nozzles, cushion plates, in-groove storage for flow channels, machined vertical pipes, front boxes, and molds for the glass industry, as well as grates for the aluminum industry, aluminum melt spouts, pour spout liners, and aluminum industry transition plates.

CCEWOOL® High-Density Calcium Silicate Board can directly contact aluminum melt, and aluminum melt does not adhere to it, offering a lifespan five times longer than ordinary materials. It can withstand temperatures of up to 1000°C (1832°F).

Characteristics:

1. Stable Heat Resistance
2. Excellent Insulating Properties
3. Outstanding Thermal Shock Resistance
4. High Strength and Long Service Life
5. Non-Wetting by non-ferrous metal melt such as aluminum melt
6. Exceptional Corrosion Resistance

Application:



1. Aluminum melt spout
2. Aluminum melt transfer plate
3. Aluminum melt grate plate
4. Steel Ladle
5. Automotive glass mold
2. High density calcium silicate crucible spout
3. High density calcium silicate flow tube
4. Hot top ring
5. Brake Pin
6. Fire door frame, fire door edge, fire door jamb

TDS

CCEWOOL® HD Calcium Silicate Board			
Items	Unit	Glass Fiber Reinforced	Carbon fiber reinforced
Density	Kg/m3	800 - 1100	800 - 1100
Compressive strength	Mpa	≥17	≥18
Flexural Strength	Mpa	≥8.5	≥8.5
Thermal conductivity	200℃	w/m.k	≤0.125
	400℃		≤0.142
	500℃		≤0.143
Temp.Limit	℃	1000	1000
Linear Shrinkage	%	length and width: 0.45, height: 1.65	length and width: 0.31, height: 1.61
		(850℃3Hrs)	(850℃3Hrs)

