



1000 Calcium Silicate Board

1000 Calcium Silicate Board is a kind of white, hard new thermal insulation material, it has the performances of light weight, low thermal conductivity, bending resistance, high tensile strength, high temperature resistance, corrosion resistance, non toxic, non flammable, can be sawed, easy to processing, not

corrode pipeline and equipment etc. Has been widely used as thermal insulation, heat preservation, fireproofing and sound insulation, it is the new type of hard insulation materials which is welcomed by the departments of electric power, petroleum, chemical industry and metallurgy

Application

- Applied for industrial pipeline, heat supply pipe network system in the fields of electric power, petroleum chemistry, metallurgy, building and shipping etc.
- Wall lining and back lining of industry furnace and heating device.

Features

- Excellent waterproof performance
- Excellent stability
- Easy to cut and processing
- High strength.
- Excellent corrosion resistance
- Excellent sound insulation

Physical Properties	UNIT					ASTM C533	JIS A9510	GBT10699
		GR-170	GR-200	GR-220	GR-250			
Bulk Density	Kg/m ³	170 (±10)	200 (±10)	220 (±10)	250 (±10)	≤352	≤220	≤270, ≤220
Highest Temperature	°C	1000	1000	1000	1000	1000	1000	1000

Rupture Strength	MPa	≥ 0.25	≥ 0.35	≥ 0.50	≥ 0.55	≥ 0.344	≥ 0.30	≥ 0.30
Thermal Conductivity	W/m.k	$\leq 0.048 + 0.00011t$	$\leq 0.048 + 0.00011t$	$\leq 0.048 + 0.00011t$	$\leq 0.048 + 0.00011t$	≤ 0.078 (93°C)	≤ 0.060 (70°C)	≤ 0.060 (100°C)
Linear shrinkage after heating 1000°C X 16hrs	%	≤ 2.0	≤ 2.0	≤ 2.0	≤ 2.0	≤ 2.0	≤ 2.0	≤ 2.0

“t” is the average temperature of working surface and cold surface

Chemical Composition	%	SIO ₂	48.1
		CAO	45.8
		AL ₂ O ₃	1.05
		FE ₂ O ₃	0.35
		LOSS	4.7

Length(mm)	Width(mm)	Thickness(mm)
1200	600	25
1200	600	30
1200	600	50



The data shown above is average results of test under standard procedures. There shall be some adjustment in normal mass manufacturing. For more information on the safety application or materials, please refer to the work practices and material safety data sheet.