



Description

C-Lite 1000 is a low density insulating material offering good thermal performance. It offers efficient and economic solutions for many industrial applications including refractory thermal back-up linings.

Thermal Ceramics' calcium silicate board is supplied to strict quality standards and is specially treated to minimise dust levels normally associated with the use of this material.

Classification Temperature

C-Lite 1000 1000°C

The maximum use temperature depends on the application. In case of doubt, refer to your local Thermal Ceramics distributor for advice.

Benefits

- Good thermal insulation performance
- Offers efficient and economic solutions for many industrial applications
- Specially treated to minimise dust levels

Typical Applications

- Rotary Kilns
- Kilns
- Furnaces
- Refractory back up linings
- Electrolytic Reduction Cell linings

Physical Properties

Classification Temperature (°C)	1000
Bulk Density (kg/m ³)	230
Flexural Strength (MPa)	≥ 0.5
Permanent Linear Change (%)	
After testing for 3 hrs @ 1000°C	≤ 1.5
After testing for 16 hrs @ 1000°C	≤ 2.0

Chemical Composition %

CaO	43
SiO ₂	47
P ₂ O ₅	< 0.2
K ₂ O	< 0.2
Na ₂ O	< 0.2
LOI	< 10

Availability

Thicknesses (mm)	Size (mm)
20 - 100	1000 X 500

Approximate Thermal Conductivity (W/mK)

≤0.056	+0.00011t (100°C)
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Thermal Ceramics


The values given herein are typical average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. Therefore, the data contained herein should not be used for specification purposes. Check with your local Thermal Ceramics office to obtain information.