



H61 Cement Board

H grades are cement boards that have been designed to provide outstanding service in demanding high temperature applications.

**Product
Description**

H61 has been specially developed to provide outstanding service in demanding thermal applications, where a quality, high strength, machineable engineering board is required. H61 is used in demanding heat and electrical insulation applications in induction furnaces, billet heater boxes, oven cladding, cathode support pads, furnaces and smelters. It is the industry standard for high temperature insulation boards and structural insulation boards.

**Product
Advantages**

- High Strength
- High Machinability
- Excellent Thermal Resistance
- Excellent Electrical Resistance
- High Quality Products
- High Toughness
- Dimensionally Stable
- Non Combustible
- Chemically Inert
- Mechanical Strength at Temperature
- Resistant to most molten metals

Technical Data

| Property | Unit | Value |
|--|--------------------|-------|
| Density | g / cm3 | 1.83 |
| Compressive strength | MPa @ ambient | 66 |
| | 24 hrs @ 350°C | 56 |
| | 24 hrs @ 500°C | 48 |
| | 24 hrs @ 700°C | 44 |
| Flexural strength | MPa @ ambient | 20 |
| | 24 hrs @ 350°C | 15 |
| | 24 hrs @ 500°C | 15 |
| | 24 hrs @ 700°C | 14 |
| Impact strength | KJ/mm @ Ambient | 2 |
| | 24 hrs @ 700°C | 1.5 |
| Linear shrinkage | % 24 hrs @ 350°C | 0.4 |
| Water absorption | % 24 hrs @ ambient | 11 |
| Electric strength | KV/mm @ 90°C | 1.9 |
| Surface Breakdown | KV/mm @ 90°C | 19 |
| Maximum continuous operating temperature | °C | 500 |
| Maximum intermittent operating temperature | °C | 600 |
| Thermal expansion | 10-6 / °C | 4.3 |
| Thermal conductivity | W/mK | 0.5 |

Sizes

Standard sheet sizes are 1245 x 940 mm, with thickness between 6 and 75 mm. Alternatively, machined components are available on request to customer drawings.

Maintenance

Periodic visual inspection is recommended.

Storage

- To be stored in a dry location
- Take care not to exceed safe working loads and heights for storage shelves and racks



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ARCLEX

FEROFORM

FIREFLY

NITRASIL

REFEL

**REFRACTORY
PRODUCTS**

REFRAVER

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Advanced materials.
tenmat.com

Tenmat warrants the materials it produces will conform to Tenmat specifications and approved drawings where applicable. It is entirely the customer's responsibility to make the final product choice and satisfy themselves of the suitability of the product for the intended application, carrying out testing where required. For construction projects, all products which the customer is intending to use on a particular project must be approved in writing by the customer's building designer, system designer or design control professional, to ensure compliance with the latest regulations.

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