



# H91 Cement Board

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

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**Product  
Description**

H91 has been specially developed to provide outstanding service in demanding thermal applications, where a quality, high strength, machinable engineering board is required. H91 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.

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**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 / cm <sup>3</sup>	1.61
Compressive strength	MPa @ ambient	96
	24 hrs @ 350°C	38
	24 hrs @ 500°C	31
	24 hrs @ 700°C	29
Flexural strength	MPa @ ambient	30
	24 hrs @ 350°C	16
	24 hrs @ 500°C	13
	24 hrs @ 700°C	13
Impact strength	KJ/mm @ Ambient	6
	24 hrs @ 700°C	2.4
Linear shrinkage	% 24 hrs @ 350°C	0.4
Water absorption	% 24 hrs @ ambient	17
Electric strength	KV/mm @ 90°C	2.1
Surface Breakdown	KV/mm @ 90°C	15
Maximum continuous operating temperature	°C	700

## Approved Applications

- Induction furnaces
- Billet heater boxes
- Oven cladding
- Cathode support pads
- Furnaces and smelters

## 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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**FEROFORM**

**FIREFLY**

**NITRASIL**

**REFEL**

**REFRACTORY  
PRODUCTS**

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