

8/15/15

Advanced materials. tenmat.com

H91 Cement Board

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

High Temperature Performance Materials

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.
Product	High Strength
Advantages	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	1.61
Compressive strength	MPa @ ambient 24 hrs @ 350°C 24 hrs @ 500°C 24 hrs @ 700°C	96 38 31 29
Flexural strength	MPa @ ambient 24 hrs @ 350°C 24 hrs @ 500°C 24 hrs @ 700°C	30 16 13 13
Impact strength	KJ/mm @ Ambient 24 hrs @ 700°C	6 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



H91 Cement Board



Feroform

FIREFL Y

NITRASIL



REFRACTORY PRODUCTS

REFRAVER

Tenmat Ltd Ashburton Rd West, Manchester M17 1TD United Kingdom

+44 161 872 2181 htsales@tenmat.com

tenmat.com



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.

The information contained in Tenmat data sheets is presented in good faith. The values are "typical only" and are based on test results generally in accordance with BS2782, ASTM, a variety of other main test bodies along with Tenmat internal test methods. These values should not be relied upon for specification purposes or the primary selection of materials. As the data sheet values are typical only, Tenmat does not warrant the conformity of its materials to these properties or the suitability of its materials for any particular purpose. It is the responsibility of the customer to do the necessary testing and satisfy themselves the product is suitable for the intended application.