



FIREFLY CS1150S Products

The FIREFLY range of non-ceramic refractory products are extensively used across various industries, which require a high performance insulation material. FIREFLY CS1150S products are manufactured from 100% exonerated Alkaline Earth Silicate (AES) fibres, with proprietary high temperature bonding agents.

**Product
Description**

CS1150S offers excellent thermal insulation combined with superior resistance to wetting by ferrous and non-ferrous molten metals. Accurately machined parts can also be produced. The products offer low thermal conductivity and superior resistance to thermal shock.

Typical applications include:

- Analytical equipment
- Analytical Furnaces
- Tap out cones

This is an exonerated product in accordance with the European Directive 97/69 EC on Classification, Packaging, and Labelling of Dangerous Substances.

**Product
Advantages**

- Low Thermal Conductivity
- Thermal Shock Resistance
- Free of harmful fibres
- High Temperature Resistance
- Chemical Resistance
- Excellent Thermal Insulation
- Machinable
- Can Form Complex 3D Geometries
- Non-Hazardous Under EU Regulations
- Resistant to Wetting by Both Ferrous and Non-Ferrous Metals
- Suitable for Applications up to 1,150 degrees C
- Proven Performance Over Decades

Approved Applications

- Aluminium and non-ferrous industry
- Steel and iron industry
- Glass and ceramics industry
- Cement industry
- Fired heaters
- Pipe insulation
- Heat treatment plants
- Industrial furnaces and furnace construction

Physical Properties

PROPERTY	UNITS	TYPICAL VALUE
Density	kgm ⁻³	425
Classification Temperature	°C	1150
Colour		White
Flexural Strength	MPa @ ambient	2.5
Linear Shrinkage 24 Hrs	% @ 1000 °C	2
Coefficient of Thermal Conductivity	Wm ⁻¹ K ⁻¹	0.07 @ 200 °C
		0.08 @ 400 °C
		0.09 @ 600 °C

Sizes

Thickness: 5, 10, 12, 15, 20, 25, 30, 35, 40, 45, 50mm
Dimensions: 500 x 1000 and 610 x 1220 mm

Storage

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

FIREFLY CS1150S Products

ARCLEX

FEROFORM

FIREFLY

NITRASIL

REFEL

**REFRACTORY
PRODUCTS**

REFRAVER

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Advanced materials.
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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.