

FI48HT HI-TEMP™

Lagging of Mechanical Equipment up to 480°C

PRODUCT DESCRIPTION AND TYPICAL APPLICATIONS

Hi-Temp glass wool is available in rolls and sheets designed for heavyduty industrial applications such as boilers, heat exchangers, process vessels and large bore pipes - operating at temperatures up to 480°C.

The conformability of Hi-Temp glass wool makes it ideal for use on curved or irregular surfaces as well as on flat surfaces where good compressive strength is required.

PHYSICAL CHARACTERISTICS

Thickness (mm)	25	38	50	75
Dimensions (mm)* - Rolls	15m x 1200	75m x 1200	75m x 1200	
- Sheets		18m x 1200	18m x 1200	18m x 1200
Density (kg/m³)	48	48	48	48
Mass/Unit Area (kg/m²)	1.2	1.8	2.4	3.6

*Other sizes are available, subject to minimum order quantities.

EARLY FIRE HAZARD RATING

When tested in accordance with AS1530 Part 3 “Early Fire Hazard Properties of Materials”, Fletcher Insulation’s Hi-Temp glass wool exhibits the following characteristics. Tests were conducted by AWTA.

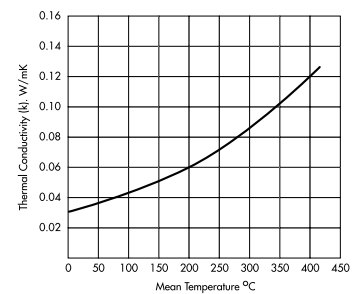
Ignitability Index	0
Spread of Flame Index	0
Heat Evolved Index	0
Smoke Developed Index	0-1

THERMAL CONDUCTIVITY

The thermal conductivity of Hi-Temp glass wool at a mean temperature* of 25°C is 0.032 W/mK (at 20°C it is 0.031 W/mK) when tested in accordance with ASTM C177. Values of thermal conductivity may be obtained from the graph opposite:

$$\text{*Mean Temperature} = \frac{T1 + T2}{2}$$

Where T1 = temperature of hot side of insulation (°C)
Where T2 = temperature of cool side of insulation (°C)



MOISTURE ABSORPTION

Tested in an atmosphere of 65% relative humidity at 20°C in accordance with British Standard 2972.

The moisture content of Hi-Temp glass wool is less than 0.1% by volume.

ALKALINITY

Hi-Temp glass wool will not support the corrosion of steel. Protection against contamination from external sources is recommended, for example, by applying suitable weatherproof

cladding over the insulation when tested in accordance with British Standard 3958, Hi-Temp glass wool products are slightly alkaline, pH9 (neutral is pH7).

MAXIMUM SERVICE TEMPERATURE

The recommended maximum service temperature for Hi-Temp glass wool is 480°C.

BUILDING CODE OF AUSTRALIA (BCA)



The Energy Efficiency provisions of the BCA requires that all insulation complies with the requirements of the Australian/New Zealand standard AS/NZS 4859.1 - Materials for the thermal insulation of buildings. AS/NZS 4859.1 specifies testing and labelling requirements for all types of insulation incorporated into the

building envelope and it’s services. The thermal resistance (R-value) shown on all labelling must be determined by a recognised laboratory, accredited to test to the relevant standards and procedures. All applicable Fletcher Insulation products are independently certified by an accredited organisation to comply with AS/NZS 4859.1.

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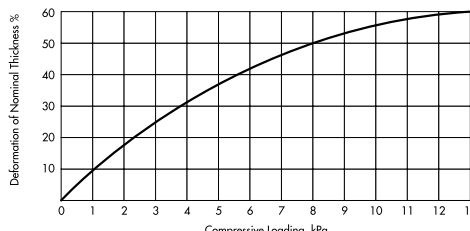
HEAT TRANSFER CALCULATION SERVICE

Given the actual service temperature and the required surface temperature, the appropriate insulation thickness can be calculated by staff at Fletcher Insulation. Fletcher Insulation

can also assist to determine the optimum insulation thickness quickly and accurately, in an easy-to-read format.

COMPRESSIVE STRENGTH

Hi-Temp glass wool has excellent resilience and recovers to its nominal thickness after compression. Deformation under compressive loading is shown on the graph.



FLEXIBILITY

Hi-Temp glass wool blanket is sufficiently flexible to be wrapped around curved surfaces as follows:-

Insulation Thickness	Minimum Diameter of Curvature
25mm	150mm
38mm	150mm
50mm	200mm
75mm	600mm

SPECIFICATION NOTES

State,

- Product: Fletcher Insulation Hi-Temp glass wool.
- Thickness (and surface temperature, if applicable).
- Type of equipment and operating temperature range.

- Fixing method preferred and if vapour barrier required.
- Location of insulation, indoors or outdoors, and finish required.

SUITABILITY FOR STAINLESS STEEL

Under certain conditions, the presence of soluble chlorides may cause stress corrosion and the cracking of some stainless steels. Hi-Temp glass wool has been tested to ASTM C795, "Standard Specification for Wicking-Type Thermal Insulation for

use over Austenitic Stainless Steel". Tests conducted by Lehigh Laboratories Inc., USA. Hi-Temp glass wool meets the BSA requirements and is thus considered suitable for use in these applications.

BIO-SOLUBILITY

Fletcher Insulation glass wool products are manufactured from FBS-1 Bio-Soluble Glass Wool™. FBS-1 Bio-Soluble Glass Wool™ is classified as non-hazardous according to the criteria of the Australian Safety and Compensation Council (formerly

NOHSC), Approved Criteria for Classifying Hazardous Substances (NOHSC:1008) 3rd Edition. Fletcher Insulation glass wool is classified as safe to use, refer to our MSDS.



SUSTAINABILITY

Sustainability...measures that satisfy the needs of people today while enhancing the quality of life for future generations. The demands on non-renewable resources for the production of energy are not sustainable without compromising the environment. Insulation, correctly specified and installed, is one of the most critical products in improving energy efficiency and reducing the levels of greenhouse gas emissions. Fletcher

Insulation is committed to providing environmentally sustainable products and utilises up to 70% recycled waste glass in the production of glass wool insulation. Fletcher Insulation products comply with the GreenStar Insulant ODP Emissions credit requirement, avoiding the use of ozone depleting substances in both manufacture and composition.

FREE CALL: 1800 626 624 | WEBSITE: www.eurekainsulation.com.au

Note: Fletcher Insulation (Vic) Pty. Ltd. reserves the right to change product specifications without prior notification. Information in this publication and otherwise supplied to users as to the subject product is based on our general experience and is given in good faith, but because of the many particular factors which are outside our knowledge and control and affect the use of products, no warranty is given or is to be implied with respect to either such information or the product itself, in particular the suitability of the product for any particular purpose. The purchaser should independently determine the suitability of the product for the intended application.

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TECHNICAL DATA SHEET