

TECHNICAL DATA SHEET

FI48 HIGH-TEMP HIGH TEMPERATURE INSULATION FOR MECHANICAL SERVICES

Product description and typical applications

FI48 High-Temp glasswool insulation is available in roll or sheet form. It is designed for insulating heavy duty industrial equipment such as boilers, heat exchangers, process vessels and large bore pipes operating at temperatures up to 480°C. The conformability of FI48 High-Temp insulation makes it ideal for use on curved or irregular surfaces in addition to flat surfaces where good compressive strength performance is required.

Physical characteristics

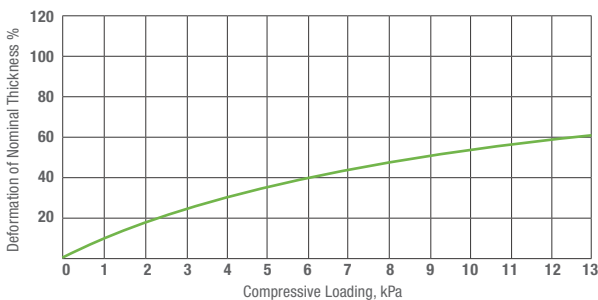
Material R-value m ² K/W	Nominal thickness mm	Dimensions	Density kg/m ³	Mass/unit area kg/m ²
R0.8	25	1200mm x 15m (roll)	48	1.2
R1.2	38	1200mm x 7.5m (roll) 1200mm x 7.5m (roll)	48	1.8
R1.5	50	1200mm x 7.5m (roll) 1200mm x 2400mm (sheet)	48	2.4
R2.3	75	1200mm x 2400mm (sheet)	48	3.6

Thermal performance

FI48 High-Temp insulation complies with the requirements of AS/NZS 4859.1:2002 including Amendment 1.

Compressive strength

FI48 High-Temp insulation has excellent compressive strength and resilience to allow for full recovery following compression. Deformation under compression loading is demonstrated in the graph below:



Flexibility

FI48 High-Temp rolls are sufficiently flexible to be wrapped around curved surfaces in accordance with the guidelines below.

Insulation thickness	Minimum diameter of curvature
25mm	150mm
38mm	150mm
50mm	200mm
75mm	600mm



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Early fire hazard properties

FI48 High-Temp insulation achieves the following results when tested in accordance with AS1530.3-1999:

Ignitability Index	0
Spread of Flame Index	0
Heat Evolved Index	0
Smoke Developed Index	3

Maximum service temperature

FI48 High-Temp insulation is manufactured for use at a maximum service temperature of 480°C. Where a facing material such as Sisalation® HD reflective laminate is applied to the insulation, the maximum service temperature shall not exceed 70°C.

Moisture absorption

FI48 High-Temp insulation absorbs less than 0.2% moisture by volume when exposed to environmental conditions of 50°C and 95% relative humidity for four days.

Alkalinity

When tested in accordance with British Standard 3958, Fletcher Insulation™ glasswool products receive a rating of pH9 (pH7 is neutral). They will not promote or accelerate the corrosion of steel or galvanised steel provided it is protected from external contamination.

Safe to use

FI48 High-Temp insulation is manufactured from FBS-1 Glasswool Bio-Soluble Insulation®. FBS-1 Glasswool Bio-Soluble Insulation® is safe to use and meets the criteria of the Australian Safety and Compensation Council (formerly NOHSC) to be classified as non-hazardous. Fletcher Insulation™ glasswool can be used with confidence in any residential, commercial or industrial application.

Green Star compliant

Fletcher Insulation avoids the use of Ozone Depleting Potential (ODP) substances in the manufacture or composition of its FBS-1 Glasswool Bio-Soluble Insulation® and Sisalation® reflective foil products.

The use of FI48 High-Temp insulation guarantees the use of Zero ODP insulation while also ensuring that no harmful levels of Volatile Organic Compounds (VOC's) are released. This allows the incorporation of environmentally preferable insulation whilst also maintaining indoor air quality.

Specification notes

The insulation material shall be Fletcher Insulation FI48 High-Temp insulation with a Material R-value of R _____ m²K/W (specify Material R-value) at a nominal thickness of _____mm (specify nominal thickness).

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