

Technical DATA SHEET

GLASSWOOL DUCTWRAP INSULATION BLANKET FOR MECHANICAL SERVICES

Product Description and Typical Applications

Ductwrap is a lightweight, flexible insulation blanket designed for external lagging of sheetmetal ductwork as well as low to medium temperature industrial equipment and appliances. Ductwrap insulation is typically suited for the use in applications such as air-conditioning ductwork, hot water tanks, and as an effective energy saving material on process vessels operating up to 340°C. The glasswool blanket is sufficiently flexible to wrap around sharp angles and small radii with sufficient compressive strength to retain thickness.

Physical Characteristics

Nominal Thickness	Roll Dimensions	Material R-Value (m ² K/W)	Density (kg/m ³)	Facing Foil
25mm	15m x 1200mm	R0.69	22	Medium Duty 1350mm wide
50mm	10m x 1380mm	R1.3	18	Medium Duty 1500mm wide
75mm	8m x 1380mm	R2.0	18	Medium Duty 1500mm wide

Thermal Performance

Ductwrap complies with the requirements of AS/NZS 4859 and achieves the R-values listed in the table above.

Maximum Service Temperature

Baron Insulation glasswool is manufactured for use at a maximum service temperature of 340°C. However, given that a Sisalation® Medium Duty (MD) laminate is adhered to the blanket, the maximum service temperature of the foil surface on Ductwrap insulation shall not exceed 70°C.

Moisture Absorption

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

Early Fire Hazard Properties

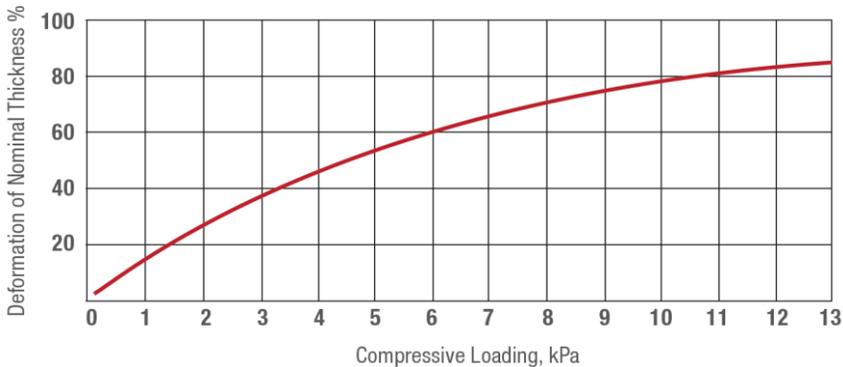
Ductwrap achieves the following results when tested in accordance with AS1530.3-1999:

Ignitability Index	0
Spread of Flame Index	0
Heat Evolved Index	0
Smoke Developed Index	0-2

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Compressive Strength

Baron Ductwrap has excellent compressive strength and resilience to allow for full recovery following compression. Deformation under compression loading is illustrated in the following graph:



Alkalinity

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

Safe to use

Ductwrap is manufactured from Glasswool Bio-Soluble Insulation®. 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. Baron Insulation glasswool can be used with confidence in any residential, commercial or industrial application.

Green Star compliant

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

The use of Ductwrap 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 Baron Insulation Ductwrap 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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