



June 2011

Mattress (Wired)

For high temperature applications

Description

Mattress (Wired) is non-combustible rock mineral wool faced on one side with galvanised or stainless steel wire mesh to form a firm but flexible general purpose insulating mattress. Mattress (Wired) has a density of 100kg/m³.

Thickness	Thermal conductivity	Thermal resistance	Width	Length	Area per pack
(mm)	(W/mK)	(m ² K/W)	(mm)	(mm)	(m ²)
50	0.033	1.50	900	4000	3.60

Note: Other thicknesses are available but subject to availability and request.

Performance

Thermal

Mattress (Wired) has a thermal conductivity of 0.033 W/mK at 10°C.

Fire

Mattress (Wired) is non-combustible.

Benefits

- Excellent thermal and acoustic insulation
- Suitable for irregularly shaped surfaces
- Suitable for high temperature equipment
- Strong and flexible
- Easy to handle and install

Mattress (Wired)

Application

Mattress (Wired) is specifically designed for the thermal insulation of large vessels and high temperature plant, such as cylindrical and irregular shaped pieces of equipment, chemical process plants, large storage tanks and spheres as well as boilers and steam turbines.

Standards

Mattress (Wired) is made from non - combustible, inorganic rock mineral wool, and is manufactured in accordance with Quality Assurance Standard EN ISO 9001.

Durability

Mattress (Wired) is odourless, non - hygroscopic, rot proof, does not sustain vermin, is non - wicking and will not encourage the growth of fungi, mould or bacteria.

Environmental

Mattress (Wired) is free from CFCs, HCFCs and any other material with ozone depletion potential in its manufacture and content and represents no known threat to the environment. **Mattress (Wired)'s manufacture has a low impact on the environment and is classified as Zero ODP and Zero GWP.**

Acoustic

Mattress (Wired) has excellent acoustic absorption properties and can be used to improve the acoustic insulation of vessels and equipment.

Moisture resistance

When exposed to 90% humidity and 20°C, Mattress (Wired) absorbs less than 0.004% of moisture.

Operating temperature

Mattress (Wired) can be used up to a continuous operating temperature of 600°C.

Handling and storage

Mattress (Wired) is easy to handle and install. Mattress (Wired) is supplied in polythene shrink wrapped packs, which are designed for short term protection only. For longer term protection on site, the product should be stored either inside, or under cover and off the ground, and should not be left exposed to the elements.

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