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# QTech™

## Wired Matt: The light mineral wool for medium temperature applications

PROUDLY MADE IN SOUTH AFRICA

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# QTech™ Wired Matt

medium temperature resistant mineral wool blankets stitched onto galvanised wire-mesh.

## TECHNICAL DATA SHEET

**ENERGY SAVING**

**NON-COMBUSTIBLE**

**UNIQUE LIGHTNESS**

**SOUND INSULATION & ABSORPTION**

**EASY TO INSTALL**

**ENVIRONMENTALLY FRIENDLY**

### DESCRIPTION

Medium temperature resistant mineral wool blankets stitched onto galvanised wire-mesh.

### APPLICATIONS

Thermal insulation of large ducts, vessels, boilers, and medium temperature equipment. Suitable for larger curved surfaces or irregular shaped surfaces.

### QUALITY MANAGEMENT SYSTEM

Isover products are manufactured according to ISO 9001:2015.

### ENVIRONMENTAL SUSTAINABILITY

Isover products are manufactured according to ISO 14001:2015.

Less material, less energy and less emissions

- Zero ozone depleting potential (ODP)
- Zero global warming potential (GWP)

### FEATURES & BENEFITS

- Lightweight mineral wool developed for medium temperature applications in industry
- Energy savings
- Excellent thermal and acoustic properties
- Excellent thermal properties (thermal conductivity) which reduces heat loss
- Shot free

- Lightweight product, easy to handle and cut
- Outstanding flexibility: can be bent around larger curved surfaces or irregular shaped surfaces
- Fast and efficient installation
- Chemically inert and when applied under controlled conditions will not promote or cause corrosion.

## FIRE PROPERTIES

- Non-combustible – tested to SANS 10177 Part 5

## ACOUSTIC PERFORMANCE

QTech™ Wired Matt has effective acoustic performance.

## CORROSIVITY

Does not contribute to corrosion of stainless steel according to ASTM C795/871.

## DURABILITY

- Odourless, inert and fully compatible with all standard building materials and components.
- Will not promote corrosion of steel, copper or aluminium.
- Will not sustain vermin.
- Will not breed or promote fungi, mould or bacteria.
- Non-hygroscopic.
- Dust settlement will not hamper the products performance
- Dimensionally stable but care must be exercised to limit moisture ingress as this not only compromises the structural integrity but interferes with the thermal resistance properties of the products as well.

## HANDLING & STORAGE

Store product under cover and in dry conditions. Store flat. Handle with care, especially on the edges and corners, which can be damaged if subject to sharp or heavy impact. Do not apply excessive pressure, for example by standing or sitting on the product, as permanent damage may be caused.

## DIMENSIONS

| Type | Product Name | Density | Thickness (mm) & Surface weight (kg/m²) | | | |
|---|---|---|---|---|---|---|
| | | kg/m³ | 40 mm* | 50 mm | 75 mm | 100 mm |
| QTech™ | QTech™ Wired Matt | 40 | 1.6 kg/m² | 2 kg/m² | 3 kg/m² | 4 kg/m² |
| Dimensions | Length (mm) | | 5 000 mm | 5 000 mm | 5 000 mm | 3 000 mm |
| | Width (mm) | | 1 200 mm | 1 200 mm | 1 200 mm | 1 200 mm |

*Made to order item.

## THERMAL CONDUCTIVITY (according to EN 12 667)

| | T[°C] | 50 | 100 | 200 | 300 |
|---|---|---|---|---|---|
| QTech™ Wired Matt | [W/(m.K)] | 0.0362 | 0.0441 | 0.0638 | 0.0901 |

| | MST |
|---|---|
| QTech™ Wired Matt | 300°C |

## MAXIMUM SERVICE TEMPERATURE (MST) under 100 Pa (according to EN 14 706)

The Maximum Service Temperature according to EN 14 706 is the temperature for which the deformation of the insulation materials is less than 5% under a load of 100 Pa and when exposed to such temperature for a continuous period of 72 hours. This test method is a more stringent evaluation of the highest, permanent operating temperature the product can sustain.

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