

Product Data Sheet

Application: INDUSTRY

Isover TECH Wired Mat MT 5.1



Robust industry stone mineral wool wired mats for medium to high temperatures

Isover TECH Wired Mat MT 5.1 is a stone mineral wool mat stitched on hexagonal galvanized wire mesh. Allows for flexible installation on uneven structures such as big diameter pipes, tanks and vessels, boilers, exhaust ducts and stacks with a maximum service temperature of up to 660 °C.

Isover TECH Wired Mat MT 5.1 is available in AS Quality (Cl⁻ ≤10 ppm) when in contact with austenitic steel structures. On request available also with stainless steel wire (X) or stainless steel wire and wire mesh (X-X) and reinforced aluminium facing (Alu1).

Features and Benefits



Achieves Euroclass A1 for effective fire protection on industry sites according to EN 13501-1.



Thermal insulation performance for service temperatures up to 660 °C.

Key Considerations

When using Isover TECH Wired Mat MT 5.1 you need to satisfy yourself that use of the product meets all relevant national Building Regulations and guidance as well as local, national and other applicable standards relevant for your construction or application, including requirements in relation to fire.

Please refer to isover.co.uk for all current documentation relating to this product.

Product Specification

| Product code | Thickness (mm) | Length (mm) | Width (mm) | Pack area (m ²) | Packs per pallet | Pallet area (m ²) |
|--------------|----------------|-------------|------------|-----------------------------|------------------|-------------------------------|
| 5200839108 | 40 | 5000 | 1000 | 5.00 | 21 | 105.00 |
| 5200839109 | 50 | 4000 | 1000 | 4.00 | 21 | 84.00 |
| 5200839110 | 60 | 3000 | 1000 | 3.00 | 21 | 63.00 |
| 5200839111 | 70 | 2500 | 1000 | 2.50 | 21 | 52.50 |
| 5200839112 | 80 | 2500 | 1000 | 2.50 | 21 | 52.50 |
| 5200839113 | 90 | 2000 | 1000 | 2.00 | 21 | 42.00 |
| 5200839114 | 100 | 2000 | 1000 | 2.00 | 21 | 42.00 |

Thermal Conductivity

| Mean temp °C | 50 | 100 | 200 | 300 | 400 | 500 | 600 | 650 |
|---------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Declared thermal conductivity (W/m.K) | 0.039 | 0.045 | 0.061 | 0.081 | 0.106 | 0.137 | 0.175 | 0.197 |

Characteristics

| | | | |
|---|--|---------------------------|--|
| Thermal | Thermal conductivity standard EN 12667, EN ISO 13787 and ASTM C177. | Chemical behaviour | Leachable chloride content less than 10 ppm (CL10). Standard EN 13468. Does not contribute to corrosion of stainless steel. Standards: EN 13468 and ASTM C795/871. |
| Application | Product for use in technical applications, such as big diameter pipes, tanks and vessels, boilers, exhaust ducts and stacks. Especially designed and certified for use in nuclear applications. Standard EN 14303. | Quality | All Isover products are manufactured under Quality Management Standard – ISO 9001. |
| Facing | On request: Reinforced aluminium facing (Alu1). | Water behaviour | No short term water absorption by partial immersion (WS ≤ 1 kg/m ²). Standard EN ISO 29767. |
| Environmental | All Isover products are manufactured under Environmental Management System – ISO 14001. | Thermal behaviour | Maximum service temperature 660 °C (under 500 Pa). Maximum service temperature 700 °C. Standards: EN 14706 and ASTM C447/C411. |
| Certification | CE-mark according to EN 14303. Designation code: MW-EN 14303-T2-ST(+)-660-WS1-CL10. Certified for use in nuclear power plants, PMUC 09-0011. Standard CINI 2.2.02. | EUCEB | EUCEB certified, demonstrating our mineral wool fibre products conform with Note Q of Regulation (EC) No 1272/2008. |
| Handling, Storage, Health and Safety | Information regarding storage, installation and handling of Isover products and health and safety information can be found at isover.co.uk/suis . | | |



Isover

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Isover reserves the right to amend or revise product specification without notice. The information in this publication is correct at the time of publication. The information herein should not be read in isolation as it is meant only as guidance for the user, who should always ensure that they are fully conversant with the products and systems being used and their subsequent installation prior to the commencement of work.

For an up-to-date library of product information, users should visit the website at isover.co.uk

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