

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



Reaction to fire

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



Nuclear plant quality

Certified for use in nuclear power plants, PMUC number: 09-0011 PMUC.



High service temperatures

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 the following product documents:

- Declaration of Performance - available at isover.co.uk/ce-marking
- Safe Use Instruction Sheet - available at isover.co.uk/healthandsafety

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 – EN ISO 9001 and EN ISO 14001. Please visit isover.co.uk/accreditations for further details.
Fire	EN 13501-1 Standard: Euroclass A1, ASTM E84 Standard: Fire Spread Index = 0; Smoke Development Index < 20.	Water behaviour	No short term water absorption by partial immersion (WS ≤ 1 kg/m ²). Standard EN ISO 29767.
Facing	On request: Reinforced aluminium facing (Alu1).	Material	Stone mineral wool, stitched on metallic mesh with either galvanized or austenitic stainless steel wire. With EUCEB quality mark according to regulation EC No 1272/2008 Note Q. Standard CINI 2.2.02.
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.	Thermal behaviour	Maximum service temperature 660 °C (under 500 Pa). Maximum service temperature 700 °C. Standards: EN 14706 and ASTM C447/C411.
Handling, Storage, Health and Safety	Please refer to the Isover Safe Use Instruction Sheet (SUIS).		



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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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