

Product Data Sheet

TECH WIRED MAT MT 5.1



**Stone wool wired mat
for the thermal insulation of
large diameter pipes, tanks and vessels,
boilers, exhaust ducts and stacks.**

TECH Wired Mat MT 5.1 is a stone wool mat stitched with galvanised wire on hexagonal galvanised wire mesh, designed to provide thermal and acoustic insulation for industrial applications. It can be considered for flexible installation on uneven structures such as large diameter pipes, tanks and vessels, boilers, exhaust ducts and stacks with a maximum service temperature of up to 660° C.

TECH Wired Mat MT 5.1 can be considered for use in austenitic steel structures (level of chlorides ions release <10 ppm).

Features & Benefits



Thermal Performance

Offers energy savings through helping to control temperatures and reduce heat loss or gain within large diameter pipes, tanks and vessels, boilers, exhaust ducts and stacks.



High Service Temperature

Thermal insulation specifically designed for service temperatures up to 660 °C.



Acoustic Benefits

The fibre structure of stone wool traps sound energy and reduces vibration and noise emissions in industrial processes.



Fire Classification

Achieves a Euroclass A1 Reaction to Fire classification, according to EN 13501-1.

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

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 insulation-uk.com/dop
- Safe Use Instruction Sheet - available at insulation-uk.com/healthandsafety

Product Specification

Product code	Thickness (mm)	Length (m)	Width (m)	Roll area (m ²)	Rolls per pallet	Weight per roll (kg)	Pallet area (m ²)	Pallet weight (Kg)	MOQ* (Pal)
5200839109	50	4.00	1.00	4.00	21	20.00	84.00	420.00	12
5200839110	60	3.00	1.00	3.00	21	18.00	63.00	378.00	13
5200839112	80	2.50	1.00	2.50	21	20.00	52.50	420.00	12
5200839114	100	2.00	1.00	2.00	21	20.00	42.00	420.00	12

*Minimum Order Quantity

On request (minimum order quantities and lead times will apply):

- TECH Wired Mat MT 5.1 X - mat reinforced with a galvanised steel mesh on one side, stitched with a stainless steel wire.
- TECH Wired Mat MT 5.1 X-X - mat reinforced with a stainless steel mesh on one side, stitched with a stainless steel wire.
- TECH Wired Mat MT 5.1 Alu1 - mat reinforced with a galvanised steel mesh on one side, stitched with a galvanised steel wire, with aluminium foil under the mesh.

Characteristics

Application	Stone wool insulation for the thermal insulation of technical applications such as large diameter pipes, tanks and vessels, boilers, exhaust ducts and stacks.	Facing	TECH Wired Mat MT 5.1 features a galvanised steel woven mesh and thread on one side.
Corrosiveness	Trace quantity of water soluble chloride ions (Cl <10 ppm). For further information, please contact technicalsupport@saint-gobain.com	Environmental	All ISOVER products are manufactured under Environmental Management System - ISO 14001.
Maximum Service Temperature	660 °C (under 500 Pa). Note: Special precautions for technical insulation products may be required when initially commissioning the equipment and the temperature of the insulation first exceeds 150 °C. During this time, the concentrations of Volatile Organic Compounds (VOCs) may exceed the permissible occupational health limits and should be monitored in situ, so the necessary precautions can be taken. For more information, please contact technicalsupport@saint-gobain.com	Quality	Manufactured under Quality Management Standard - ISO 9001.
Water Absorption	≤1 kg/m ²	Handling, Storage, Health and Safety	Product should be transported and stored under cover. Further Information regarding storage, installation and handling of ISOVER products and health & safety information can be found at insulation-uk.com/healthandsafety .
Fire	Euroclass A1 Reaction to Fire classification according to EN 13501-1.	Certification	CE Marked to EN 14303. Designation code: MW-EN 14303-T2-ST(+)-660-WS1-CL10
		External Applications	Can be considered for external applications when used with an appropriate weatherproof jacketing system.



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 insulation-uk.com

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