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

<table>
<thead>
<tr>
<th>Mean temp °C</th>
<th>50</th>
<th>100</th>
<th>200</th>
<th>300</th>
<th>400</th>
<th>500</th>
<th>600</th>
<th>650</th>
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</thead>
<tbody>
<tr>
<td>Declared thermal conductivity (W/m.K)</td>
<td>0.039</td>
<td>0.045</td>
<td>0.061</td>
<td>0.081</td>
<td>0.106</td>
<td>0.137</td>
<td>0.175</td>
<td>0.197</td>
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</tbody>
</table>

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**

<table>
<thead>
<tr>
<th>Product code</th>
<th>Thickness (mm)</th>
<th>Length (m)</th>
<th>Width (m)</th>
<th>Roll area (m²)</th>
<th>Rolls per pallet</th>
<th>Weight per roll (kg)</th>
<th>Pallet area (m²)</th>
<th>Pallet weight (Kg)</th>
<th>MOQ* (Pal)</th>
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</thead>
<tbody>
<tr>
<td>5200839109</td>
<td>50</td>
<td>4.00</td>
<td>1.00</td>
<td>4.00</td>
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<td>420.00</td>
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<tr>
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<td>20.00</td>
<td>42.00</td>
<td>420.00</td>
<td>12</td>
</tr>
</tbody>
</table>

*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.

**Corrosiveness**

Trace quantity of water soluble chloride ions (Cl <10 ppm). For further information, please contact technica1support@saint-gobain.com

**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

**Water Absorption**

≤ 1 kg/m²

**Fire**

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

**Facing**

TECH Wired Mat MT 5.1 features a galvanised steel woven mesh and thread on one side.

**Environmental**

All ISOVER products are manufactured under Environmental Management System – ISO 14001.

**Quality**


**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.

**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.