



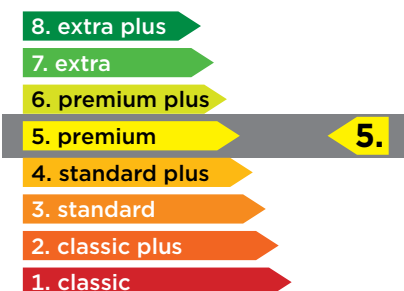
TECH Wired Mat MT 5.1 Alu1/X/X-X

Premium performance robust industry stone mineral wool wired mats for medium-high temperatures

TECH Wired Mat MT 5.1 is the premium thermal performance stone mineral wool mat stitched with galvanized wire on hexagonal galvanized wire mesh 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.

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).

Thermal Efficiency Indicator



ENERGY EFFICIENCY



Premium thermal insulation performance at medium to higher service temperatures up to 660 °C

HIGH SERVICE TEMPERATURES



Especially designed for high service temperatures up to 660 °C

SOUND INSULATION



The ability of mineral wool to act as a spring results in reducing vibration and noise emissions in industrial processes

NUCLEAR PLANT QUALITY



Certified for use in nuclear applications

FIRE REACTION



Non-combustible, Euroclass A1 for effective fire protection on industry sites

ENVIRONMENTAL PROTECTION



Its Premium thermal performance allows to reduce significantly energy losses, the use of natural resources and CO₂ emissions

CHARACTERISTIC	SYMBOL	UNIT	QUANTITIES AND DECLARED VALUES								STANDARD
Thermal conductivity	T	[°C]	50	100	200	300	400	500	600	650	EN 12667 EN ISO 13787 ASTM C177
			0.039	0.045	0.061	0.081	0.106	0.137	0.175	0.197	
Thermal behaviour	λ	[W/(m·K)]	Maximum service temperature 660 (under 500 Pa) Maximum service temperature 700								EN 14706 C447/C411

CHARACTERISTIC	SYMBOL	UNIT	QUANTITIES AND DECLARED VALUES								STANDARD
Specific thermal capacity	c	kJ/(kg·K)	1.03								ISO 10456
Reaction to fire	-	-	Non combustible; Euroclass A1 Fire Spread Index = 0; Smoke Development Index < 20								EN 13501-1 ASTM E84
Water behaviour	WS	kg/m ²	No short term water absorption by partial immersion (WS1 ≤ 1 kg/m ²)								EN ISO 29767
Chemical behaviour	-	-	On request : Leachable chloride content less than 10 ppm (CL10) Do not contribute to corrosion of stainless steel Especially designed and certified for use in nuclear applications								EN 13468 ASTM C795/871
Application field	-	-	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								EN 14303
Material	-	-	Stone mineral wool, stitched on metallic mesh with either galvanized or austenitic stainless steel wire With quality marks EUCEB, unrisky regarding health according to regulation EC No 1272/2008 Note Q								CINI 2.2.02
Facing	-	-	On request: Reinforced aluminium facing (Alu1)								-
Miscellaneous	-	-	Designation code: MW-EN 14303-T2-ST(+)-660-WS1 [-CL10]								EN 14303
Quality management	-	-	CE-marked according to EN 14303 ISOVER is certified according to EN ISO 9001 and EN ISO 14001								EN 14303 EN ISO 9001 EN ISO 14001
Delivery form	-	-	Please contact your local ISOVER dealer All dimensions require minimum order quantities Standard width: 500 mm, 600 mm, 1,000 mm Standard thickness range: 30 mm to 120 mm Other dimensions on request								-



www.isover-technical-insulation.com

The technical information corresponds to our present state of knowledge and experience at the date of printing (see imprint). But no legal guarantee can be given, unless it has been explicitly agreed. The state of experience and knowledge is developing continuously. Please see to it that you always use the latest edition of this information. The described product applications do not take special circumstances in consideration. Please verify whether our products are appropriate for the concrete application. For further information please contact our Isover sales offices. We deliver only according to our terms of trade and terms of delivery.

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