



TECH Wired Mat MT 5.0 Alu1/X/X-X

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

TECH Wired Mat MT 5.0 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, exhaust ducts and stacks with a maximum service temperature of up to 620 °C. TECH Wired Mat MT 5.0 is produced in AS Quality (CL- ≤ 10 ppm) for usage when in contact with austenitic steel structures. On request with stainless steel wire (X) or stainless steel wire and wire mesh (X-X) and reinforced aluminium facing (Alu1). On request available also in „EX“ quality almost without organic content for use in explosion risk areas when in contact with liquid oxygene such as in cold boxes, air separation units etc. in line with application standards as AGI Q 118 and specifications of industrial gas providers e.g. Linde, Air Liquide, Air Products.



Energy efficiency

Premium thermal insulation performance at medium to higher service temperatures up to 620 °C



High service temperatures

Especially designed for high service temperatures up to 620 °C



Sound insulation

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



Explosion risk solution

Especially designed for use in explosion risk areas when in contact with liquid oxygene

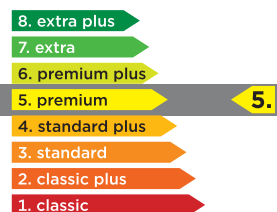


Fire reaction

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



Thermal Efficiency Indicator



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Premium performance robust industry stone mineral wool wired mats

Characteristic	Symbol	Unit	Quantities and declared values								Standard
Thermal behaviour Max. service temp.	T	[°C]	620 (under 500 Pa)								EN 14706
			680								ASTM C411
Thermal conductivity	T	[°C]	50	100	150	200	300	400	500	600	EN 12667 ISO 13787
	λ	[W/(m·K)]	0.040	0.046	0.052	0.061	0.083	0.110	0.145	0.190	
Specific thermal capacity	c	[kJ/(kg·K)]	1.03								ISO 10456
Fire protection / Behaviour in fire	-	-	Non combustible; Euroclass A1								EN 13501-1
			Fire Spread Index = 0; Smoke Development Index < 20								ASTM E84
Chemical behaviour	-	-	AS-Quality Leachable chloride content less than 10 ppm (CL10) Do not contribute to corrosion of stainless steel No short term water absorption by partial immersion (WS1)								AGI Q 132 EN 13468 ASTM C795 EN 1609
Application field	-	-	Product for use in technical applications, such as big diameter pipes, tanks and vessels, boilers, exhaust ducts and stacks								EN 14303
Material	-	-	Stone mineral wool, stitched on metallic mesh with either galvanized or austenitic stainless steel wire With quality marks EUCEB and RAL by the Gütegemeinschaft Mineralwolle e. V., unrisky regarding health according to German decree on dangerous substances, decree on prohibition of chemicals and to regulation EC No 1272/2008 Note Q								CINI 2.2.02
Facing	-	-	On request: Reinforced aluminium facing (Alu1)								-
Quality management	-	-	CE-marked according to EN 14303 Quality control according to VDI 2055 ISOVER is certified according to EN ISO 9001 and EN ISO 14001								EN 14303 VDI 2055 EN ISO 9001 EN ISO 14001
Miscellaneous	-	-	Insulating material identification number: 10.01.02.40.10 MW-EN 14303-T2-ST(+)-620-WS1-CL10								AGI Q 132 EN 14303

Delivery form: Standard dimensions / packaging information*									
Thickness** d (mm)	30	40	50	60	70	80	90	100	120
Width b (mm)	500	500	500	500	500	500	500	500	500
Length l (mm)	8,000	8,000	5,000	5,000	5,000	4,000	4,000	3,000	3,000
m ² /roll	4.0	4.0	2.5	2.5	2.5	2.0	2.0	1.5	1.5
m ² /pallet	160.0	120.0	100.0	75.0	75.0	60.0	60.0	45.0	45.0
rolls/pallet	40	30	40	30	30	30	30	30	30

* all dimensions require minimum order quantities / other dimensions on request

** Under a load of 1000 Pa

www.isover-technical-insulation.com

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