



Mai 2014

Wired Mat WM 660

Description

Wired Mat WM 660 is a high density, non-combustible rock mineral wool mat. The standard Wired Mat WM 660 GG is supplied with galvanized steel mesh and stitched with galvanized steel wire. The mesh makes the wired mat a firm, but flexible insulation mattress, withstanding high operating temperatures.

Also available as Wired Mat WM 660 SG and Wired Mat WM 660 S

Wired Mat WM 660 can also be supplied with galvanized steel mesh and stainless wire (SG) or stainless steel mesh and stainless wire (S).

Application

Wired Mat WM 660 is recommended for thermal, acoustic and fire insulation in various industrial and HVAC applications:

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| <ul style="list-style-type: none"> • Industrial pipe works • Vessels • Columns • Boilers | <ul style="list-style-type: none"> • Tanks • Ducts • Parts like: Elbows, Valves, T-pieces, Reductions, Flanges |
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Note: Some countries might require application-specific tests of insulation products

It can be used for continuous operating temperatures up to 660 °C, and works particularly well for the insulation of large diameter and high temperature pipe work. The wired mat significantly reduces noise generated by liquid and granular materials transported through pipework at high velocity.

It is suitable for wrapping any large curved surface or cutting to fit over irregular shaped surfaces.

This product is also certified for the ship building industry and for application with austenitic steel.

Performance

Thermal insulation

Wired Mat WM 660 offers superior thermal insulation up to 660 °C

Fire behaviour

Wired Mat WM 660 is classified as non-combustible to class A1

Max. service temperature (MST)

Wired Mat WM 660 can be used up to continuous operating temperatures of 660 °C

Benefits

- Resistant to high temperatures
- Non-combustible
- Water repellent
- Chemically inert
- No deterioration of performance over time
- Easy to install
- Resilient, strong and flexible
- Marine certified



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Properties	Symbol	Description/Data				Unit	Test method	Standards
Maximum service temperature*	ST(+)	660				°C	EN 14706	AGI Q 132 edition 2006
Thermal conductivity in relation to temperature*	ϕ	50	100	200	300	°C	EN 12667 ASTM C177	
	λ	0,040	0,046	0,061	0,080	W/(m·K)		
	ϕ	400	500	600	650	°C		
	λ	0,104	0,134	0,167	0,205	W/(m·K)		
Nominal density	ρ	100				kg/m ³	EN 1602 ASTM C167	
Designation code*	–	10.01.03.66.10				–		
AS-Quality*	–	≤ 10				ppm	EN 13468	
Water absorption*	W _p	≤ 1,0				kg/m ²	EN 1609 ASTM C1104	
Silicone free	–	Produced without addition of silicone oil						
Reaction to fire	–	A1				–	EN 13820 ASTM E84	EN 13501-1
Melting point of fibres		≥ 1000				°C	DIN 4102-17	DIN 4102-17
Longitudinal air flow resistance	r	≥ 50 000				Pa·s/m ²	EN 29053	
Water vapour diffusion resistance value	μ	1				–	EN 12086	
Wire mesh Wire	–	25 mm x 0,7 mm 0,3 mm				–	EN 10223-2	AGI Q 132

* VDI 2055 monitored.

WM 660 meets all the requirements and pass all the tests of ASTM C592.

Handling & storage

Wired Mat WM 660 is easy to handle and install.

We recommend to contact our sales representatives if you intend to use Wired Mats on smaller diameter pipes to ensure an appropriate insulation.

It is supplied in polyethylene packs which are designed for short term protection only. For longer term protection on site, it is recommended to store the product either indoors, or under cover and off the ground. Product information is mentioned on every pack.

Wired Mat WM 660 should not be left permanently exposed to the elements.



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