



U Thermo Matt

ULTIMATE: Mineral wool for high temperature applications

DESCRIPTION

Resin-bonded high temperature resistant mineral wool blankets stitched onto galvanized wire-mesh.

APPLICATIONS

Thermal insulation of large ducts, vessels, boilers and high temperature equipment. Suitable for larger curved surfaces or irregular shaped surfaces.

QUALITY MANAGEMENT SYSTEM

ISOVER products are manufactured according to ISO 9001:2008.

ENVIRONMENTAL SUSTAINABILITY

ISOVER products are manufactured according to ISO 14001:2004.

Less material, less energy and less emissions

- Zero ozone depleting potential (ODP)
- Zero global warming potential (GWP)

FEATURES & BENEFITS

- Mineral wool developed for high temperature applications
- Excellent lambda values (thermal conductivity) which reduces heat loss
- Shot free
- Lightweight products, easy to handle
- Soft touch
- Outstanding flexibility: can be bent around corners or odd shapes without any edge breaks
- Fast and efficient installation
- Chemically inert and when applied under controlled conditions will not promote or cause corrosion
- Meets the European criteria in being non-hazardous to health (EUCEB certificate)

FIRE PROPERTIES

Non-combustible - tested to SANS 10177-5

ACOUSTIC PERFORMANCE

Has excellent sound absorption characteristics which will provide effective acoustic insulation where reduction in noise levels is required.

CORROSIVITY

U Thermo Matt typically contains less than 10ppm chloride (SABS Method 1119-1988).

DURABILITY

- Will not sustain vermin
- Will not breed or promote fungi, mould or bacteria
- Will not settle under vibration
- Rot proof
- Dimensionally stable but care must be exercised to limit moisture ingress as this not only compromises the structural integrity but interferes with the thermal resistance properties of the products as well

HANDLING & STORAGE

All U Thermo Matt products should be stored and handled with care to maintain ex-works quality. The packaging will provide some protection but care should be taken to keep the material dry at all times. Extra protection should always be provided when storing the product outdoors.

U Thermo Matt

THERMAL CONDUCTIVITY (according to EN 12 667)

	T [°C]	50	100	200	300	400	500	600
U Thermo Matt 3	[W/(m.K)]	0.036	0.044	0.064	0.090	0.125	0.169	0.224
U Thermo Matt 6	[W/(m.K)]	0.034	0.039	0.054	0.074	0.098	0.129	0.166
U Thermo Matt 8	[W/(m.K)]	0.033	0.038	0.051	0.067	0.086	0.110	0.138

DIMENSIONS

Type	Product name	Thickness (mm) & Surface weight (kg/m ²)			
		40mm	50mm	75mm	100mm
Wired Mattress	U Thermo Matt 3	1.6	2.0	3.0	4.0
	U Thermo Matt 6	2.4	3.0	4.5	6.0
	U Thermo Matt 8	3.2	4.0	6.0	N/A*
Dimensions	Length (mm)	5000	5000	3000	3000
	Width (mm)	1200	1200	1200	1200

* N/A - not available in standard product range

MAXIMUM SERVICE TEMPERATURE (MST) under 500Pa (according to EN 14 706)

The Maximum Service Temperature according to EN 14 706 is the temperature for which the deformation of the insulation material is less than 5% under a load of 500Pa and when exposed to such temperature for a continuous period of 72 hours. This test method is a more stringent evaluation of the highest permanent, operating temperature the product can sustain.

	MST	Load applied during test
U Thermo Matt 3	400°C	250Pa
U Thermo Matt 6	550°C	500Pa*
U Thermo Matt 8	620°C	500Pa*

* According to EN 14 706



ISOVER reserves the right to alter or amend product specification without notice. The information given in this publication is correct to the best of our knowledge at the time of publication. Whilst Isover will endeavour to ensure publications are up to date, it is the users' responsibility to check with us that it is correct prior to use.

