U Thermo Pipe

ULTIMATE: Mineral wool for high temperature applications

DESCRIPTION
Resin-bonded high temperature resistant mineral wool, cylindrical sections. The pipe sections are supplied plain, however they can be covered with aluminium foil where a vapour barrier is required.

APPLICATIONS
Thermal and acoustic insulation of pipe work in power generation, oil refineries, chemical plants and on industrial steam and process pipe work.

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 emitions
- 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, easy cutting
- Outstanding flexibility: pipe sections can be opened and closed several times without breaking into two pieces
- 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
Will provide effective acoustical insulation where there is a need to reduce noise levels from pipe work. Actual performance varies with thickness and surface finish.

CORROSIVITY
U Thermo Pipe 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 Pipe products should be stored and handled with care to maintain ex-works quality. The packaging (corrugated cartons) 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.

ISOVER SAINT-GOBAIN

U Thermo Pipe

THERMAL CONDUCTIVITY (according to EN 8 497)

	T [°C]	50	100	150	200	300	400
U Thermo Pipe	[W/(m.K)]	0.037	0.043	0.051	0.060	0.083	0.111

MAXIMUM SERVICE TEMPERATURE (MST) under 500Pa (according to EN 14 707)

The Maximum Service Temperature according to EN 14 707 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.

Tmax = 660°C under 500 Pa according to EN 14 707

DIMENSIONS

Pipe		Wall thickness (mm)					
Nominal bore (mm)	Outside diameter (mm)	25	40	50	60	70	100
15	21.3	●	●				
20	26.9	●		●			
25	33.7	●	●	●		●	
32	42.4	●		●			
40	48.3	●	●	●			
50	60.3	●	●	●	●	●	
65	76.1	●	●			●	
80	88.9	●	●	●		●	●
100	114.3	●	●	●		●	●
125	139.7		●				
150	168.3	●	●	●		●	●
175			●				
200	219.1	●	●	●		●	●
250	273.0	●		●			●
300	323.9			●			●

" ●" = available from stock.

Non standard U Thermo Pipes available on special order.

Tel: 0860 ISOVER (476837) Fax: 086 673 1088
www.isover.co.za

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