TECHNICAL CHARACTERISTICS Laminated: DELTHERM1

Description: Laminate based of MAT. glass fibre and special epoxy resin for continuous operation at 240°C. Main features:

- Free from asbestos
- Low heat conductivity
- excellent tolerances with respect to parallelism
- Easy to work
- Long life expectancy
- Low water absorption
- Good stability of hydrocarbons
- Good chemical stability
- Excellent mechanical durability
- Excellent electrical properties

The low conductivity of the product allows a substantial saving of energy costs. As a result of low water absorption and chemical stability, there is an increase in the life expectancy of thermal insulation.
The product is based on a glass fabric (fibreglass, mica paper and a resin resistant to high temperatures). This material is free from asbestos, has a high temperature resistance and has good mechanical resistance even at high temperatures.
From a mechanical point of view the material can be easily machined.

Application: Deltherm1 is designed for all applications where thermal insulation under compression conditions is required (hot presses with temperatures up to 240°C continuously and peaks at 280°C); It has excellent mechanical and physical properties under compression at high temperatures.

Rohs Directive: Material does not contain products referred to in EU Directive 2002/95/EC section 1.

Thickness. Standard : 3 mm to 50 mm. Other thicknesses available on request.

Bi-ground thickness tolerances :

Thickness 10 = +/-0,10 mm

Thickness between 10 and 15 = +/-0,15 mm

Thickness > 15 = 1% of thickness

Plate sizes : 1335x940 – 2950x1335

Mechanical properties	Unit	Values	Norm
Resistance to the bending	MPa	420	ISO 178
Compression strength at 23°C flat	MPa	590	ISO604
Compression resistance 200°C flat	MPa	270	ISO604

Dielectric properties	Unit	Values	Norm
Dielectric strength flat	kV/mm	15	IEC 60243-1

Physical properties	Unit	Values	Norm
Density	g/cm³	1,9+/-0,10	ISO 1183
Water consumption 24h	%	0,08	ISO 62
Color		beige chiaro	

Thermal properties	Unit	Values	Norm
Thermal insulation	°C	240	
Maximum thermal insulation (for short term)	°C	280	
Thermal conductivity	W/m.K	0,24	DIN 52612
Coefficient of linear expansion //	1.0E-6 / K	15	

STORAGE: in dry places, in horizontal position.
We are available to effect cutting to measurement as well as machining to drawing of parts by CNC

We inform you that the data reported on the data sheet are provided to the end user for the sole purpose of providing a range of parameters in order to assess the hypothetical suitability of the product to the actual use of the same, therefore to be considered indicative as they represent average values from laboratory tests. **The user must then test the product to determine its properties and its suitability for its intended use.**
Misolet s.r.l expressly disclaims all liability for any damage, injury and costs to persons and/or property, arising directly or indirectly from the use of the product that has not been preceded by tests with respect to the conditions of use to which the same will be intended. The data contained in this data sheet does not constitute a guarantee of any kind, express or implied, including any suitability for a particular use or purpose.

La MISOLET S.r.l. - Capitale sociale € 50.000,00 int.vers. C.F.e P. IVA 06943440153
Tel.: +39-0377/43.71.25 (4 Linee R.A.) - Fax +39-0377/31.94.76 Internet: **www.misolet.it** - E-mail: **info@misolet.it**
Uffici e Produzione: SP142, 4c - 26867 Somaglia (LO) - Italy Sede Legale: Via Verbano, 8 - 20139 Milano