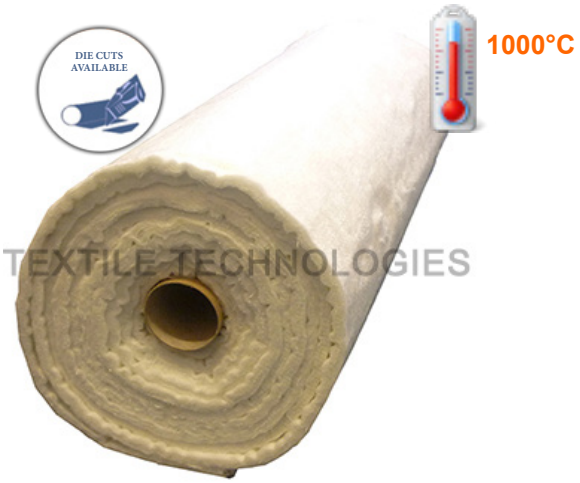
SNEED/06/1000/1 Technical Datasheet

- Silica needlemat is a felt made of amorphous silica fibre that is mechanically needled and completely free of any chemical binders.
- The high content of silica makes the product more compact, flexible and resistant to the maximum operating temperature of **1000°C.**
- The diameter of the fibre is over 6 microns and the length of the filaments are equal to approximately 50mm.
- Silica needlefelt is odourless, white in colour and non-flammable.
- It is chemically stable and offers a good level of acoustic insulation.
- Thanks to its heat insulation characteristics, it is used in the form of cushions to insulate turbines, combustion chambers and exhausts.
- On request, the felt can have an aluminium embossed lamination, be adhesived backed and coupled with glass fabric and cut to drawings.



Applications

- Used in nautical, naval, industrial, and automotive industries as insulation wadding for fabricated valve covers, exhaust and engine manifold covers, silencer infill; boiler insulation and pipe lagging.

Technical Properties

Properties	Value					Test Method				
Weight (g/m²) Nominal Value Tolerance %	 900 ± 10					ISO 3374				
Thickness (mm) Mean Value Single Value	 6 ± 1 4 - 8					PP - RA.2 - F03				
Density (Kg/m³)	150									
Type of Glass Main Components (%)	100 % High Silica Glass SiO_2: 95 ± 1; Al_2O_3: 3.5 ± 0.5					Comp. Method PP - RA.2 - K05				
Binding	Non									
Temperature Resistance (°C)	**1000°C**									
Combustibility	Non-combustible					DIN 4102				
Width nom. (mm) Tolerance (mm)	1000 ± 10					DIN EN 1773				
Roll Length (mm)	30									
Temperature Resistance (°C)	100	200	300	400	500	600	700	800	900	1000
Thermal Conductivity (W/m ° K)q	0.042	0.052	0.065	0.082	0.098	0.119	0.148	0.175	0.19	0.205

Further Information

Material Safety Data Sheet	S-TEX Silica Textiles MSDS

Important: Information on the above characteristics is based upon tests we believe to be reliable. The values given are typical values that vary according to application conditions. The values are intended only as a source of information and are given without guarantee and do not constitute a warranty. It should be noted that the substrate test materials are generic and actual results may vary from those given above. Purchasers should independently determine prior to use the suitability of this material for their specific purposes. All Textile Technologies Europe Ltd materials described herein are sold subject to Textile Technologies Europe Ltd conditions of sale, a copy of which is available on request.

UK Office
Tel: 0161 367 1370
Email: sales@textiletechnologies.co.uk

Australia Office
Tel: 04 0375 3944
Email: sales@textiletechnologies.com.au