

BOLITAN-MAT / S-MAT

Technical specification

	Product	S 1100 * bio-soluble	1260	1430	1600
Application temperature	°C	1100	1150	1350	1500
Density	kg/m ³	64, 96, 128	64, 96, 128	96, 128	96, 128
Thermal conductivity (at a medium temperature W/mK) at a density of 96 kg/m ³	450 °C	0.100	0.095	0.095	0.062
	650 °C	0.150	0.140	0.148	0.085
	850 °C	0.220	0.220	0.192	0.113
	1050 °C	0.310	0.360	0.238	0.160
Shrinkage (after 24h) at 1100 °C	%	2.2	1.9	1.9	1.0
Tensile strength (density 96 kg/m ³)	kPa	21	55	75	27
Standard dimensions (in mm) ⁽¹⁾	Lengths	21960 14640 10000 7320 5000 3660			
	Widths	610 1220			
	Thicknesses	6.4 12.7 19.1 25.4 38.1 50.8			
	Org. binder (%)	0			
Colour		white	white	white	white

General properties:

- » High tensile strength
- » Low shrinkage
- » Low thermal conductivity
- » Low heat storage capacity
- » Good sound absorption
- » High heat radiation

Needled light mats made of high temperature ceramic fibres intended for a wide range of thermal insulation applications. These products do not release any vapours harmful to health on first heating.

Typical applications:

- » Insulation of combustion furnaces
- » High temperature seals
- » Chimney linings
- » Glass trough insulation
- » Outer insulation of moulds

* The synthetic mineral fibres used for manufacturing this product are classified as non-carcinogenic according to the EU Directive 97/69/EC.

- (1) We are able to supply special formats and special thicknesses on request. We will be pleased to manufacture stampings, milled parts or cuttings according to your drawings.
- (2) The classification temperature is not to be equated with the maximum application temperature, in particular when physical conditions such as tensile or pressure loads are involved. For applications as high-temperature insulation, lower temperatures must always be applied. In these cases, our Engineering department will offer assistance and support.
- (3) Heat transmission calculations for this material can be requested from our Engineering department.

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