

## TECHNICAL DATA SHEET

## CERAMIC MAT MT-1260/1400

Ceramic fibres are made from fused oxides of silicon and aluminium through a spinning process. White twisted aluminosilicate fibres with high temperature resistance, low thermal conductivity and good chemical resistance are obtained. Ceramic mats consist of aluminosilicate fibres mechanically bonded without additional binding agents. They have excellent resistance to sudden temperature fluctuations. The thermal resistance of ceramic mats is, depending on the type: 1260°C, 1400°C. The products find application in various industries as thermal insulation in the construction of ovens, dryers, and fireplaces. Can also be used to insulate boilers, pipelines, and cables as a classic insulation material. Ceramic mats serve as an ideal material for the production of modules.

## Features:

- resistance to continuous load up to 1260°C, 1400°C;
- good insulating properties;
- high mechanical stability;
- low annealing losses;
- high chemical and thermal stability;
- low specific gravity and elasticity;
- resistance to water, oils, fats, liquid metals, and most acids;
- superior electrical insulating properties;
- superior acoustic properties;
- easy to process;
- wide range of formats, uniform density, dimensional stability;



Classification temperature	°C	1260	1400
Specific gravity, density	kg/m <sup>3</sup>	96, 128	128
Melting point	°C	1780	1800
Shrinkage after 24 h at	1260 °C	%	3,5
	1300 °C	%	-
Chemical analysis, DIN EN 955-2	Al <sub>2</sub> O <sub>3</sub>	%	min. 46
	SiO <sub>2</sub> + Al <sub>2</sub> O <sub>3</sub>	%	min. 97
Geometric mean fibre length	µm	68	95
Thermal conductivity λ at density 128 kg/m <sup>3</sup>			
	400 °C	W/mk	0,09
	600 °C	W/mk	0,14
	800 °C	W/mk	0,2
	1000 °C	W/mk	0,27
	1200 °C	W/mk	0,34
Roll widths	mm	610,	
Mat thickness	mm	6, 13, 19, 25, 38, 50	

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