

# Technical Data Sheet

Material description



is a high temperature insulation board or shape part, made out of exfoliating vermiculite and an inorganic binder. The material is free of asbestos fibers and organic substance.

Specification

Type		Grenamat AR
Designation		Vermiculite board / shaped part
Dimension of board	mm	1220 x 2440 x th.10-45;
Tolerance of thickness	mm	± 0,2
Tolerance of format	mm	± 5
Classification temperature	°C	950
Building class material according to DIN 4102		A1, non-combustible
Building class material according to EN 13 501:1		A1, non-combustible
Bulk density	kg/m <sup>3</sup>	450 - 800
Tolerance of density	%	± 10
Cold compressive strength at deformation of 10%	N/mm <sup>2</sup>	3,6
Linear shrinkage after 12 h at 700 °C	%	0,66
Specific heat capacity	kJ/kgK	0,8
Thermal conductivity		
200 °C	W/mK	0,168
400 °C		0,184
600 °C		0,209
800 °C		0,221
Thermal length change	m/mK	8,5 · 10 <sup>-6</sup>
Moisture content (in foil)	%	2 - 3
Chemical analysis:		
Al <sub>2</sub> O <sub>3</sub>	%	9,10
SiO <sub>2</sub>		54,75
MgO		23,48
Alkali		5,21

All technical data are mean values from the production, which are subject to the usual fluctuations.

They shall not be deemed as a guarantee of certain properties in the sense of a warranty.

All data correspond to the latest state of the art and have been presented and described to the best of our knowledge. Modifications resulting from the latest recognitions are possible. Errors and omissions are not excluded. Our terms of delivery and payment are valid in the event of any possible liability.

Ask for the safety data sheet.

This publication renders all previous ones invalid.

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