

# Technical data sheet



## Material

**grenalight®**

is a high temperature insulation and non-structural board, made out of exfoliating vermiculite and an inorganic binder. The material is free of asbestos fibers and organic substance. The material is designed for insulation of accumulating stove. It is ease to work by normal wood tools.

### Specification

Type		Grenalight
Shape		The board with smooth back side and with lined face
Format of board	mm	800 x 600; 1000 x 610 x tl. 30, 40, 50
Tolerance of thickness	mm	± 0,5
Tolerance of format	mm	± 5
Classification temperature	°C	950
Fire Class acc.to DIN 4102		A1, non-combustible
Reaction to fire EN 13 501:1		A1, non-combustible
Density	kg/m <sup>3</sup>	350
Tolerance of density	%	± 5
Compressive strength, deformation to 10%	MPa	2,2
Bending strength	MPa	1,3
Linear shrinkage after 12 h in 700 °C	%	1,2
Heat Capacity	kJ/kgK	0,8
Thermal Conductivity	200 °C 400 °C 600 °C 800 °C	W/mK 0,12 0,14 0,16 0,17
Thermal Expansion	m/mK	8,5 · 10 <sup>-6</sup>
Moisture (Packed 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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17