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Your reliable business partner in world of vermiculite

PRODUCT: THERMOVERM VERMICULITE BOARDS TECHNICAL DATA. GENERAL PROPERTIES

No.	Options	Units	Description
1	Length (max)	mm	1250
2	Width (max)	mm	1050
3	Thickness	mm	10 – 70
4	Density	kg/m ³	450 – 1200
5	Tensile strength: Compression - (EN 8895:2007)	kg/cm ²	5 – 54
6	Tensile strength: Bending - (EN 993-7:1998)	kg/cm ²	6 – 30
7	Thermal conductivity at 200 °C	Wt/m*k	0,09 – 0,18
8	Absorption (24 hours) (available hydrophobicity)	%	10 – 50
9	Residual moisture	%	Max 7
10	Application temperature*	°C	-260 to +1200
11	Linear shrinkage temperature	%	Max 2
12	Fire-retardant performance	Time	0,5 – 4
13	Sound absorption at a frequency of 500 Hz	α	0,4 – 0,6

*Dimensional tolerances to 2 mm

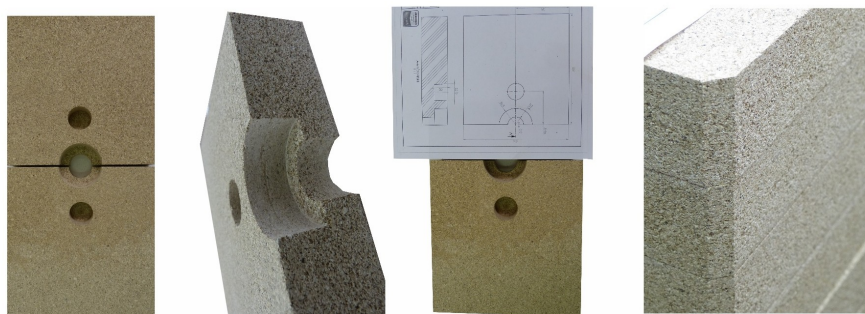
* Melting point of vermiculite: 1350 - 1430 °C

Application:

- Heat/thermal insulators
- Fire resistant insulators
- Fireplace inserts
- Fireplace casings
- Vermiculite moulders
- Insulators of boilers door
- Insulators of furnaces door
- Vermiculite panels,
- Fireproof door panels
- Panels of lifts door
- Acoustic panels

THERMOVERM VERMICULITE FIREPROOF BOARDS					
Options	Units	PRODUCT			
		EKO 500/	EKO 600/	EKO 700/	EKO 800/
Density	[kg/m ³]	500 +/- 50	600 +/- 50	700 +/- 50	800 +/- 50
Tensile strength: Compression	[MPa]	2,7 (27)	4,2 (42)	4,5 (45)	5,4 (54)
Tensile strength: Bending	(kg/cm ²)	1,2 (12)	1,6 (16)	2,0 (20)	2,4 (24)
Linear shrinkage (600 °C)	[%]	Max. 2 - EN 1094-6:1999			
Absorption (24 hours)	[%]	50	30	25	20
Residual moisture	[%]	Max. 7			
Thermal conductivity at 200 °C	[λ]	0,15	0,16	0,17	0,18
Thermal conductivity at 600 °C	[λ]	-	0,20	0,20	0,21
Fire-retardant performance	[h]	0,5 - 4,0			
Sound absorption (500 Hz)	[α]	0,40 - 0,60			
Toxic		Non - the product doesn't emit harmful substances			
Flammability		Non - PN-EN 13501-1+A1:2009 (A1)			
Application temperature*	[°C]	- 260 to + 1200			

* Melting point of the vermiculite: 1350 - 1430 °C



Results based on tests from 08/07/2013, according to the manufacturer's information, as well as the PN-EN 13501-1 + A1: 2009 "Fire classification of construction products and building elements - Part 1: reaction to fire."
 To determine the values used tests according to the following standards:
 PN-EN ISO 1716: 2010 - "Products reaction to fire. Heat of combustion (calorific value)."
 PN-EN ISO 1182: 2010, " Products reaction to fire. Flammability tests."