

MONOLUX®



Structural calcium silicates

MONOLUX[®] materials are rigid insulation boards with a low thermal conductivity. They are specifically formulated without asbestos and mineral fibres.

MONOLUX® products have low shrinkage and high strength and therefore provide effective and stable insulation solutions for industrial applications.

MONOLUX[®] boards combine high mechanical strength, good thermal and electric insulation at high temperatures.

	white/beige
EN 13501	A1, non-combustible
	1000
kg/m³	950
N/mm ²	> 27
N/mm ²	7
%	0.8
kV/mm	4.2
seconds	300
Ωcm	4.3x10 ⁸
Ωcm	6.5x10 ⁷
Ωcm	8.1x10 ⁸
Ωcm	7.5x10 ⁷
W/m K	0.20
W/m K	0.21
W/m K	0.22
W/m K	0.23
kJ/kg K	1.03
K-1	7.3x10 ⁻⁶
%	49
%	48
%	1.2
%	12
pH value	approx. 10
%	< 5
mm	2500
	°C kg/m³ N/mm² N/mm² N/mm² N/mm² % </td

Length	mm	2500	
Width	mm	1200	
Thickness	mm	12.7 / 25 / 30 / 40 / 50 / 60	

Production tolerances		
Length and width	mm	± 1
Thickness	mm	± 0.4



Properties & advantages

- Low thermal conductivity
- High mechanical strength
- High electrical and arc resistance
- Chemical resistance
- Moisture resistance
- Excellent machinability to close tolerances
- Tough and durable
- Dust free surface
- Asbestos free

Application areas

OIL AND GAS

- Load bearing pipe supports
- Heat shields

HEAVY INDUSTRY

- Structural thermal separations
- Furnace bottom boards
- Dryer walls



Working & processing

MONOLUX® products can be accurately machined with special processing machinery and appropriate tools. The fine material structure allows the production of precision machined parts.

To avoid water absorbtion and to protect against aggressive atmospheres, Promat[®]-Impregnations are available.

When cutting to size, the maximum workplace concentration values for inhalable dust must be observed. Dust extraction is recommended. See product safety information sheet.



Thermal conductivity

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