

PROMABOARD®

dense Calcium Silicate Insulating Boards 350°C

Material Description

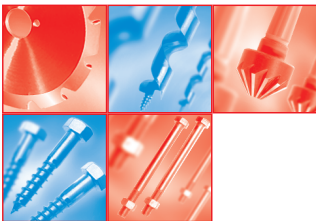
PROMABOARD® are dense calcium silicates in the bulk density range 1300 to 1600 kg/m³ and are asbestos-free. PROMABOARD® have high mechanical strengths and are thermally and electrically insulating.

These products are used as an asbestos replacement in all industrial fields.

Advantages and Properties

- high mechanical strength
- precise to machine and work
- temperature resistant up to 350°C
- thermal insulating
- high electrical strength and arc resistance
- dust-free surface
- asbestos-free and safe in terms of working hygiene

Technical Data		
Product Name		PROMABOARD®
Colour		grey
Classification temperature	°C	350
Bulk density ρ	kg/m ³	1600
Cold compressive strength	N/mm ²	75
Bending strength σ	N/mm ²	35
Shrinkage at CT, 12h	%	0.5
Reversible thermal expansion	m/mK	$8.5 \cdot 10^{-6}$
Thermal conductivity λ	W/m K	
	200°C	0.43
Specific heat capacity c	kJ/kg K	1.05
Flatwise electrical strength	kV/mm	–
Annealing loss	%	15



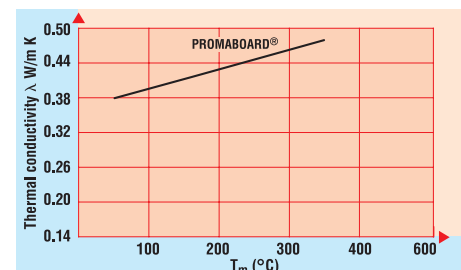
Working and Processing

Very easy to work with special machines and correspondingly equipped tools. Accurate processing is a precondition for their use as precision parts in machines and plants.

Cutting to Size

When cutting to size, the maximum workplace concentration values for dust generation must be observed. In general dust suction is recommended.

Thermal conductivity curve for PROMABOARD®





Areas of Application

- Special parts for induction furnaces
- Welding pad
- Process technology
- Precision parts for machine and apparatus construction
- Thermal and electrical insulation
- Thermal industrial applications, factory stairways

PROMABOARD® is suitable for thermal and electrical application areas and high mechanical stress. They are non-combustible, arc resistant and can be used for applications where thermal resistance, mechanical stability and electrical resistance are required.

When compared with metallic materials, PROMABOARD® has a lower thermal expansion.



PROMABOARD®
dense calcium silicate boards and shaped parts

→ 500°C

Delivery Sizes

Product	Thickness (mm)	Width (mm)	Length (mm)
PROMABOARD®	6, 8, 10, 15, 18	1240/1220 (edge-planed)	2520/2500 (edge-planed)

Not all dimensions are available in stock.

Tolerances

Product		Thickness	Length/Width
PROMABOARD®	unedged-sawn	± 15%	± 5.0 mm
	edge-planed	± 15%	± 2.5 mm

MG Materials

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