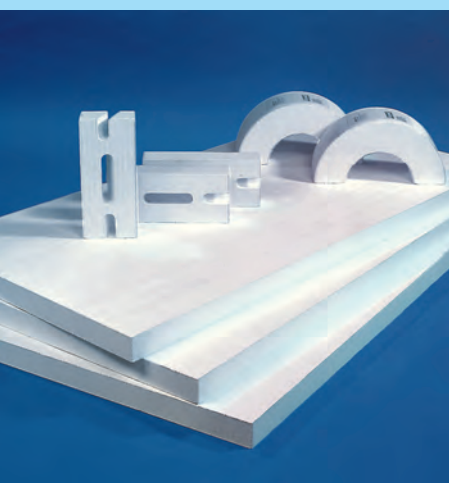


### APPLICATIONS

Promat PROMASIL® is an efficient insulation material for back-up lining and is widely used within the following industries:

- Steel industry
- Petrochemical
- Glass industry
- Aluminium industry



### INTRODUCTION

Promat PROMASIL® 1000, Promat PROMASIL® 1000P and Promat PROMASIL® 1100 are lightweight calcium silicate insulating boards formulated without asbestos.

In terms of thermal conductivity, mechanical characteristics, high temperature stability and workability, Promat PROMASIL® represents the ultimate choice in low-density calcium silicate insulation.

The patented manufacturing process of Promat PROMASIL® guarantees constant quality above the requirements of ASTM and DIN standards.

Performance and properties	Promat PROMASIL® 1000	Promat PROMASIL® 1000P	Promat PROMASIL® 1100
Colour	White	White	White
Classification temperature	1000°C	1000°C	1100°C
Bulk density	245kg/m <sup>3</sup>	290kg/m <sup>3</sup>	285kg/m <sup>3</sup>
Cold crushing strength	1.4N/mm <sup>2</sup>	2.0N/mm <sup>2</sup>	1.9N/mm <sup>2</sup>
Shrinkage at 12 hours	1000°C: 1.3% 1050°C: –	1.3% –	– 1.5%
Reversible thermal expansion	5.4 x 10 <sup>-6</sup> m/mK	5.4 x 10 <sup>-6</sup> m/mK	5.5 x 10 <sup>-6</sup> m/mK
Specific heat capacity	1.03kJ/kgK	1.03kJ/kgK	1.05kJ/kgK
Thermal conductivity	200°C: 0.07W/mK 400°C: 0.10W/mK 600°C: 0.14W/mK 800°C: 0.17W/mK	0.08W/mK 0.10W/mK 0.14W/mK 0.17W/mK	0.07W/mK 0.10W/mK 0.14W/mK 0.18W/mK
Protective gas-resistance	CO, NH <sub>3</sub> , H <sub>2</sub> , CH <sub>4</sub> , N <sub>2</sub> atmosphere		

NOTE: All physical property values are averages based on standard production. The figures can change dependent on the test methods used. If a particular value is of prime importance for a specification, please contact Promat Technical Services Department.

Standard sizes	
Thicknesses (mm)	25, 40, 50, 60, 65, 75, 90 and 100
Width (mm)	500
Length (mm)	1000
Tolerance	Thickness (mm): ±1.3 Width and length (mm): ±1.5

### ADVANTAGES

- Low thermal conductivity
- High thermal resistance
- Low thermal shrinkage
- Low bulk density
- No known health hazards
- Easy to work and handle

### HEALTH AND SAFETY

A safety data sheet is available from the Promat Technical Services Department and, as with any other materials, should be read before working with the board. The board is not classified as a dangerous substance and so no special provisions are required regarding the carriage and disposal of the product to landfill. They can be placed in an on-site skip with other general building waste which should be disposed of by a registered contractor.