



PROMASIL®-1000L are large size, lightweight insulating boards with very good thermal properties. Their homogeneous and stable mineral matrix structure guarantees excellent mechanical and thermal characteristics.

**PROMASIL® -1000L** boards are mechanically strong and vibration proof and have a good thermal stability up to 1000 °C.

### Properties & advantages

- Extremely low thermal conductivity
- Low shrinkage
- Low thermal mass, lightweight
- Good mechanical strength
- High thermal stability
- Large size format
- Good workability

### Typical applications

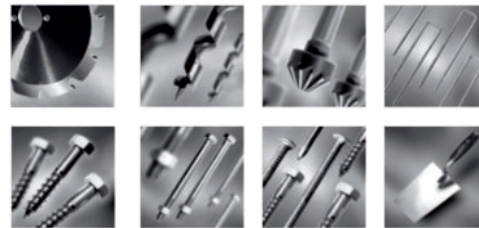
PROMASIL® materials are used in various industrial applications as thermal back-up insulation in a refractory lining.

- Electrolytic reduction cells
- Fired heaters in oil and gas industry
- All types of kilns and furnaces
- Apparatus construction
- Domestic appliances
- Glass melting and refining
- Fuel cells
- Load bearing pipe clamps
- Domestic fireplaces

### Working & processing

PROMASIL® -1000L allows extensive machining by using woodworking and CNC machines with hard metal tipped tools in order to produce machined cut sections and special shapes.

When cutting to size, the maximum recommended workplace concentration for dust generation must be observed. We advise local dust extraction in the cutting zone. Please ask your local sales representative for the MSDS prior to machining.

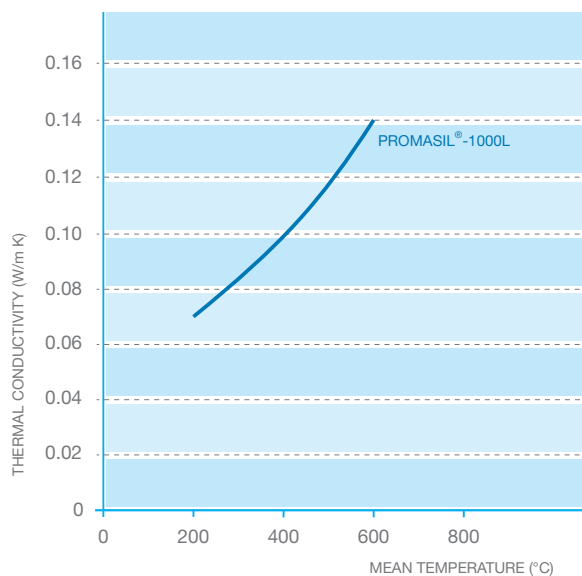




### Technical data

Brand		PROMASIL®	
Grade		-1000L	
Colour		White	
Classification temperature	°C	1000	
Bulk density	kg/m <sup>3</sup>	300	
Thermal expansion @ 400 °C	m/m K	6.0x10 <sup>-6</sup>	
Bending strength (longitudinal direction)	N/mm <sup>2</sup>	1.0	
Cold compressive strength (perpendicular direction)	N/mm <sup>2</sup>	2.5	
Linear shrinkage	@ 1000 °C, 12 h	%	0.5
Thermal conductivity	200 °C	W/m K	0.081
	400 °C	W/m K	0.099
	600 °C	W/m K	0.126
	800 °C	W/m K	0.163
Specific heat capacity @ 400 °C		kJ/kg K	1.02

### Thermal conductivity graph



### Product dimensions & standard sizes

	Length [mm]	Width [mm]	Thickness [mm]
PROMASIL®-1000L	2500	1200	25-30-40-50-60

Other sizes are available on request.

Shaped parts and cut sections are available on request.

### Production tolerances

	Length [mm]	Width [mm]	Thickness [mm]
PROMASIL®-1000L	± 3.0	± 3.0	± 0.5

[www.promat-hpi.com](http://www.promat-hpi.com)

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