



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

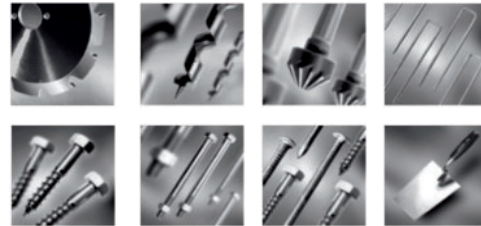
PROMASIL® materials are used in various industrial applications as thermal back-up insulation in a refractory lining.

- 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.



Promafour® 
for Fireplaces



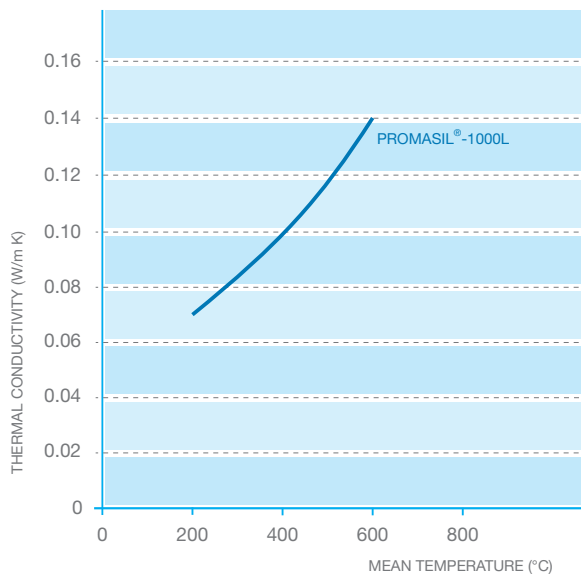
A PRODUCT OF THE PROMAFOUR® SYSTEM



Technical data

Brand			PROMASIL®
Grade			-1000L
Colour			White
Classification temperature	°C		1000
Bulk density	kg/m ³		300
Thermal expansion @ 400 °C	m/m K		6.0x10 ⁻⁶
Bending strength (longitudinal direction)	N/mm ²		1.0
Cold compressive strength (perpendicular direction)	N/mm ²		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

All data contained in this publication are provided in good faith and are correct at the time of printing. Data is representative of production and are subject to normal production fluctuations, they should not be deemed to constitute or imply any warranty of performance, the user is held responsible for determining the suitability of the products for the given application. Errors and omissions excepted. All drawings and representations remain our exclusive property and cannot be used, totally or in part, without our prior written approval. Excerpts, reproductions, copies etc. of our publications require our prior approval. This publication renders all previous ones invalid. Our terms of delivery and payment apply in the event of any claim. Promat is a registered trademark. © Copyright Promat GmbH, Ratingen, Germany. All rights reserved.