

PROMAPACK®-700 and -900 Insulating and Sealing Boards 1000°C to 1100°C

Material Description

PROMAPACK® boards are rigid insulating materials based on mineral wool, wollastonite and aluminium silicate wool with mineral filling components. The boards are bound with both organic and inorganic binders. Due to this combination, the boards have high temperature resistance, low thermal conductivity and good electrical insulating properties. This material is asbestos-free and with its all-round properties it replaces previously used asbestos boards. The areas of application are numerous and not limited to the main application field of high temperature seals.

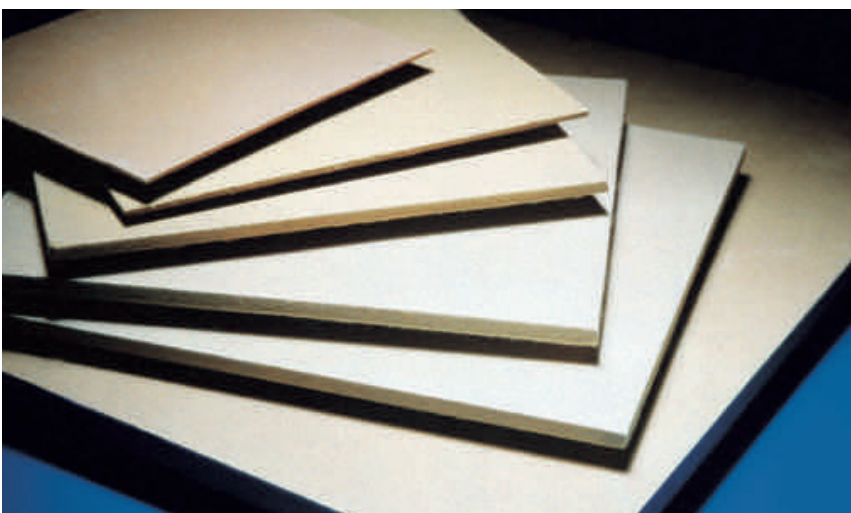
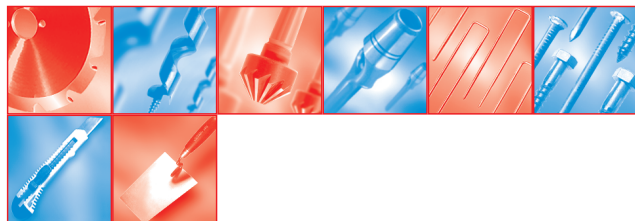
Advantages and Properties

- thin, lightweight and rigid
- smooth surface
- can be shaped in wet condition
- excellent machinability
- high temperature resistance
- insensitive to thermal shocks
- high electrical insulation
- low thermal conductivity
- hardly wetted by molten metal
- good acid resistance

Technical Data

Product Name	PROMAPACK® Insulating and Sealing Boards		
	-700	-900	
Colour	light grey	beige/brown	
Classification temperature	1000°C	1100°C	
Bulk density ρ	960 kg/m ³	1000 kg/m ³	
Tensile strength ¹⁾	2.5–5.0 N/mm ²	2.5–5.0 N/mm ²	
Shrinkage at 1000 °C, 24 h	2.6%	0.8%	
Specific heat capacity c	1.2 kJ/kg K	1.2 kJ/kg K	
Thermal conductivity λ	W/m K	W/m K	
	400°C	0.10	0.12
	600°C	0.11	0.13
	800°C	0.13	0.16
	1000°C	0.14	0.20
Chemical analysis	%	%	
	SiO ₂	44	45
	Al ₂ O ₃	34	18
	CaO	0.6	20
	LOI	19	15
Binder content, organic	11.5%	12.8%	

¹⁾ depending on the board thickness



PROMAPACK® boards

Working and Processing

PROMAPACK® can be punched, cut, milled and drilled easily with conventional woodworking machinery with hard-metal-tipped tools. PROMAPACK® boards have the additional advantage that they can be shaped in wet condition – without breakage.

When working and processing aluminium silicate wool products, the Technical Regulations for Hazardous Materials (TRGS) must be observed.



Areas of Application

As insulating and sealing material, especially as a substitute for previously used asbestos boards.

- High temperature sealings
- Carrier material for roller conveyors in metallurgy and in the glass industry
- Rear insulating layer in furnace construction as a barrier layer and for absorption of aggressive condensates
- Household appliances, heating systems and burners
- Protecting device and welding pad

Special Qualities

PROMAPACK®-800

- for roller conveyors in flat glass production

PROMAPACK®-1120

- for roller conveyors in sheet steel production

Delivery Sizes

Standard dimensions	PROMAPACK®-700			PROMAPACK®-900		
Length x width (mm)	1000 x 1000			1000 x 1000		
Board thickness (mm)	1	2	2.5	1	2	2.5
	3	4	5	3	4	5
	6	8	10	6	8	10

Tolerances

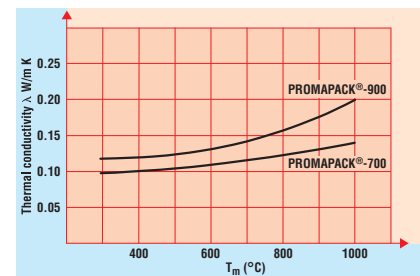
Dimensional tolerances of standard boards:

Lengths and widths: ± 5%

Thicknesses:

1.0 mm	± 0.1 mm
1.5/2.0 mm	± 0.2 mm
3.0 mm	± 0.3 mm
4.0/5.0/6.0 mm	± 0.4 mm
8.0/10.0/12.0 mm	± 0.5 mm

Thermal conductivity curve for PROMAPACK®-700, -900



Accessories

With bonding agent K84 or ALSIBLOCK®-D bonding agent, PROMAPACK® can be bonded layer on layer or on other insulating materials, according to temperature demand. The bonding joint has to be executed as thinly as possible.

→ 1260°C



PROMAPACK®
shaped parts

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A Leading Reference in Engineering, Supply, Installation of High-Performance Insulation, Fire Protection, Dry Construction Systems

