

## MATERIAL DATA SHEET

### Material description:

**PROMALAN®-HT 100** are high temperature insulation boards based on mineral fibers and organic binders with low thermal conductivity, especially suitable for back insulation.

### Specifications:

Designation and type:	<b>PROMALAN®-HT 100</b>	
Colour:	yellow-green	
Classification temperature:	750	°C
Permanent application temperature:	650	°C
Bulk density:	100	kg/m <sup>3</sup>
Class reaction on fire (DIN 4102, EN 13501):	A 1, non-flammable	
Shrinkage at 650 °C / 12 h:	max. 2,5	%
Specific heat capacity:	0,84	kJ/kg.K
Thermal conductivity at:		
100 °C	0,046	W/m.K
200 °C	0,060	W/m.K
300 °C	0,076	W/m.K
400 °C	0,110	W/m.K
500 °C	0,160	W/m.K
600 °C	0,220	W/m.K
Chemical analysis:		
Al <sub>2</sub> O <sub>3</sub>	21	%
SiO <sub>2</sub>	37	%
Fe <sub>2</sub> O <sub>3</sub>	5	%
MgO	10	%
CaO	21	%
organické pojivo	1,5	%
Binder evaporation:	from 200	°C
Available format and thickness:	1250 x 500 mm 30 / 40 / 50 / 60 / 80 / 100 mm	

All details correspond to the state of technology and have been described to the best of our knowledge. Changes on the base of new results are possible. Data in material data sheet are higher priority, that data in catalogue.