



MATERIAL DATA SHEET · Issue 08/2026

SOLUT MP Board 1000 AL

Product description

Microporous insulation boards with extremely low thermal conductivity, faced with aluminium foil, glass cloth or PE foil.

Physical properties

Product designation	MP Board 1000	MP Board 1000S	MP Board 1100
Classification temperature (°C)	1000	1000	1100
Density (kg/m³)	270 / 320	270 / 320	270 / 320
Chemical composition			
SiO ₂	63–79 %	63–79 %	63–79 %
SiC	14–28 %	14–28 %	—
ZrSiO ₄	—	—	15–30 %
High-silica fibre	2–5 %	2–5 %	2–5 %
Thermal conductivity (W/m K), mean temperature			
20 °C	0,020	0,019	0,021
200 °C	0,022	0,021	0,024
400 °C	0,025	0,024	0,028
800 °C	0,035	0,033	0,040
Linear shrinkage (%)	–1,5 (900 °C × 12 h)	0,7 (900 °C × 12 h)	–1,5 (1000 °C × 12 h)
Flexural strength	0,12 N/mm²	0,13 N/mm²	0,12 N/mm²
Fire classification	A1	A1	A1

Available sizes (mm)

	Length (mm)	Width (mm)	Thickness (mm)
	1000	600	5–50
	1000	500	5–50

Other sizes on request

Characteristics

- Extremely low thermal conductivity
- Low heat storage
- Non-combustible
- Can be cut

Application

- Ladle insulation lining
- Fire protection
- Furnace lining
- Pipe insulation

Facing: Aluminium foil / glass fibre cloth / PE foil

For precautions and health hazards when processing SOLUT MP Board 1000 AL, please refer to our safety data sheet.

All technical data given are approximate values. They are based on the evaluation of tests on specific samples and have been presented and described to the best of our knowledge. Due to the manufacturing process, deviations in product properties cannot be excluded. They are therefore not to be construed as a warranty for which SBS Refractory Service GmbH assumes legal liability. We reserve the right to make technical changes in the light of new findings; errors and misprints excepted.

Questions about selection, installation or availability?

Reply within 24 hours on working days.

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Product page: www.sbs-rs.de/en/materialien/keramikfaser