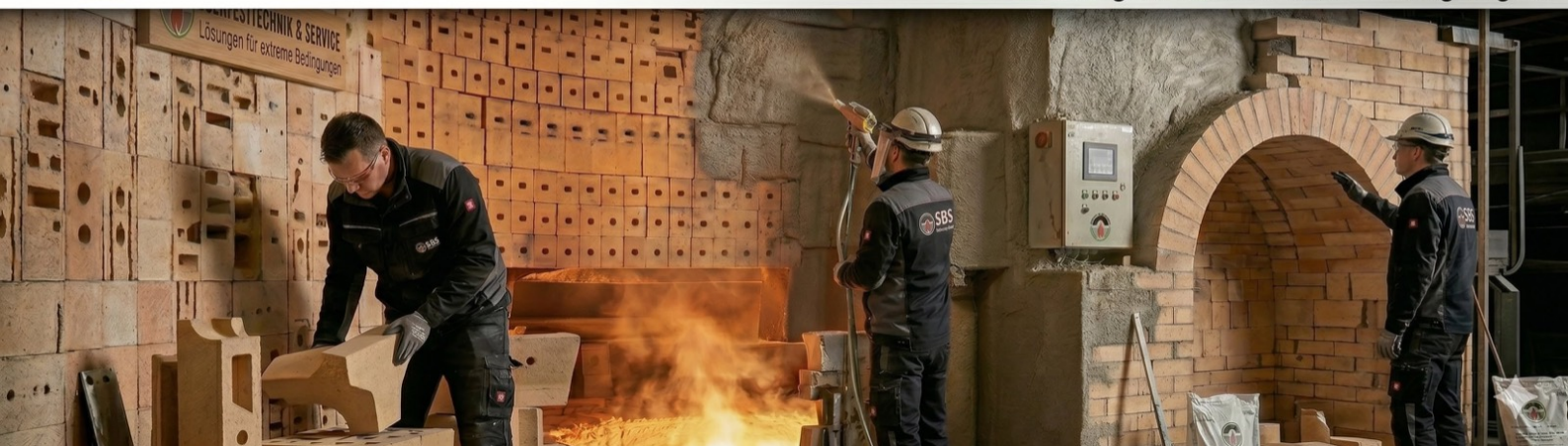




MATERIAL DATA SHEET · Issue 08/2026

SOLUT Board ST · HA · HT + BW Board

Product description

SOLUT Board are refractory boards made from ceramic fibre with organic and inorganic binders. They are pressed, which gives them a high density combined with good mechanical strength. The porous structure provides good thermal insulation. The boards are asbestos-free and machine very well with a milling cutter.

Product designation	SOLUT ST BOARD	SOLUT HA BOARD	SOLUT HT BOARD
Classification temperature (°C)	1260	1350	1430
Chemical composition			
Al ₂ O ₃	≥ 43	≥ 52	≥ 35
SiO ₂	≥ 54	≥ 47	≥ 49
ZrO ₂	—	—	≥ 15
Colour	white	white	white
Density (kg/m³)	250 · 300 · 360	300 · 360	300 · 360
Flexural strength	≥ 0,3	≥ 0,3	≥ 0,3
Compressive strength (MPa, 10 % relative deformation)	0,15 · 0,25 · 0,3	0,25 · 0,3	0,25 · 0,3
Loss on ignition (%)	≤ 6	≤ 6	≤ 6
Linear shrinkage (%)	1000 °C × 24 h ≤ 3,0	1200 °C × 24 h ≤ 3,5	1350 °C × 24 h ≤ 3,5
Thermal conductivity (W/m K)			
400 °C	0,08	0,07	0,07
600 °C	0,11	0,10	0,09
800 °C	0,14	0,13	0,13
1000 °C	0,19	0,19	0,18

Bio-soluble variant

Product designation	SOLUT BW 1200 BOARD
Classification temperature (°C)	1200
Colour	white
Chemical composition	

SiO ₂	55 – 65
CaO	15 – 30
MgO	4 – 7
Density (kg/m ³)	300
Flexural strength	≥ 0,25
Compressive strength (MPa, 10 % relative deformation)	0,15
Loss on ignition (%)	≤ 7
Linear shrinkage (%)	1200 °C × 24 h ≤ 2,0
Thermal conductivity (W/m K)	
200 °C	0,05
400 °C	0,08
600 °C	0,11
800 °C	0,12
1000 °C	0,15

Characteristics

- Simple installation
- Dimensional accuracy
- Ground surface
- Low thermal conductivity
- Lightweight — replaces heavy secondary insulation and saves steel
- Thermal shock resistant
- Resistant to erosion by hot gases
- Resistant to most chemicals
- Easy to cut and install
- Sound attenuating
- Asbestos-free

Application

- Industrial, firing and melting furnaces
- Boilers of all types
- Fireplaces and high-temperature chimneys
- Hot gas and hot air ducts
- Expansion joints between boards
- Lining of walls, roofs and doors
- Lining of combustion chambers and heaters
- Back-up insulation behind brick and monolithic linings
- Transport of aluminium and non-ferrous metals
- Flame and heat protection barriers
- Hot face layer in erosive furnace atmospheres

Processing

Different densities and classification temperatures allow targeted use in general furnace construction as well as in mechanical engineering. The maximum service temperature is application-specific — if in doubt, discuss it with our application engineering team.

For precautions and health hazards when processing SOLUT Board, 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