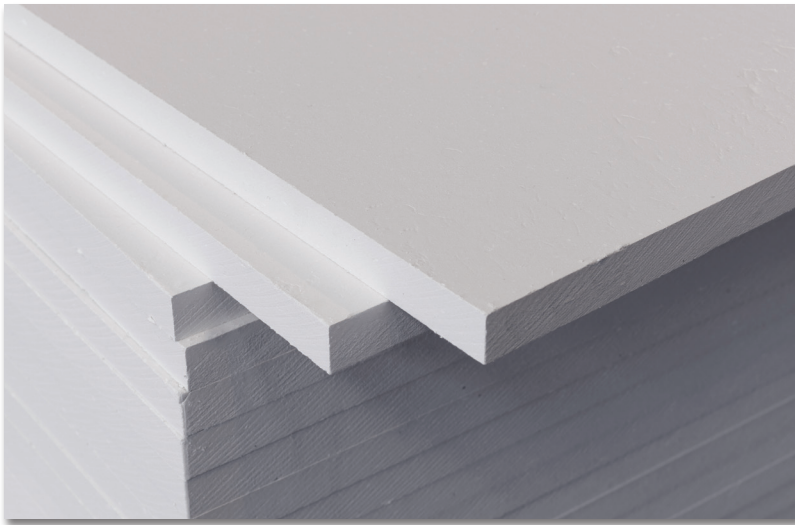


PROMATECT[®]-MST



Structural calcium silicates

PROMATECT[®]-MST materials are rigid insulation boards with a low thermal conductivity. They are specifically formulated without asbestos and mineral fibres.

PROMATECT[®]-MST products have low shrinkage and high strength and therefore provide effective and stable insulation solutions for industrial applications.

PROMATECT[®]-MST is a rigid machinable insulation used as a thermal break in process plants and as single skin insulation in ovens and dryers.

Technical data

Colour		white/beige
Building material class	EN 13501	A1, non-combustible
Classification temperature	°C	1000
Nominal density	kg/m ³	750
Cold compressive strength	N/mm ²	18
Bending strength	N/mm ²	6
Shrinkage 1000 °C - 24h	%	0.9
Breakdown voltage and electric strength EN 60243-1	kV/mm	2.6
Thermal conductivity		
200 °C	W/m K	0.22
400 °C	W/m K	0.20
600 °C	W/m K	0.20
800 °C	W/m K	0.22
Specific heat capacity	kJ/kg K	0,96
Reversible thermal expansion 20-800 °C - 2 nd heating	K ⁻¹	7.4x10 ⁻⁶
Chemical analysis		
SiO ₂	%	49
CaO	%	48
Fe ₂ O ₃	%	1.2
LOI	%	11
Alkalinity	pH value	approx. 10
Moisture content (air-dry)	%	< 5

Delivery sizes

Length	mm	2500
Width	mm	1200
Thickness	mm	12.7 / 20 / 25 / 30 / 40 / 50 / 60

Production tolerances

Length and width	mm	± 1
Thickness	mm	± 0.4

PROMATECT[®]-MST

Properties & advantages

- Low thermal conductivity
- High mechanical strength
- Resistant to moisture and chemicals
- Excellent machinability to close tolerances
- Strong and durable
- Dust free surface
- Asbestos free

Application areas

OIL AND GAS

- Load bearing pipe supports

HEAVY INDUSTRY

- Heat shields
- Structural thermal breaks
- Furnace bottom boards



Working & processing

PROMATECT[®]-MST products can be accurately machined with special processing machinery and appropriate tools. The fine material structure allows the production of precision machined parts.

To avoid water absorption and to protect against aggressive atmospheres, Promat[®]-Impregnations are available.

When cutting to size, the maximum workplace concentration values for inhalable dust must be observed. Dust extraction is recommended. See product safety information sheet.

Thermal conductivity

