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/m³	750
Cold compressive strength	N/mm²	18
Bending strength	N/mm²	6
Shrinkage		
1000 °C – 24h	%	0.9
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 – 2nd heating	K^{-1}	$7.4x10^{-6}$
Chemical analysis		
SiO_2	%	49
CaO	%	48
Fe_2O_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

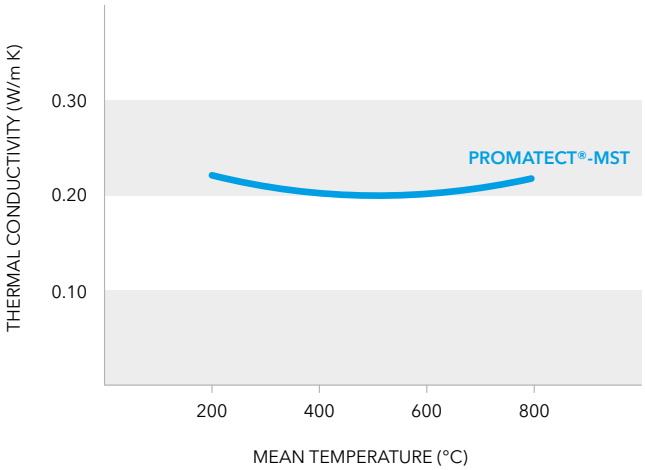
Working & processing

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 absorbtion 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



Etex Industry c/o Microtherm N.V., Industriepark-Noord 1, 9100 Sint-Niklaas, Belgium | T +32 (0)3 760 19 80 | F +32 (0)3 760 19 99
info@promat-industry.com | www.promat-industry.com

etex industry