

High Thermal Insulation

Among thermal insulation materials, these materials have particularly superior “thermal resistance” and “thermal insulation” properties.

It is suitable for locations that demand high temperature resistance and strong insulation such as industrial furnaces, combustion equipment, iron-making equipment, etc.

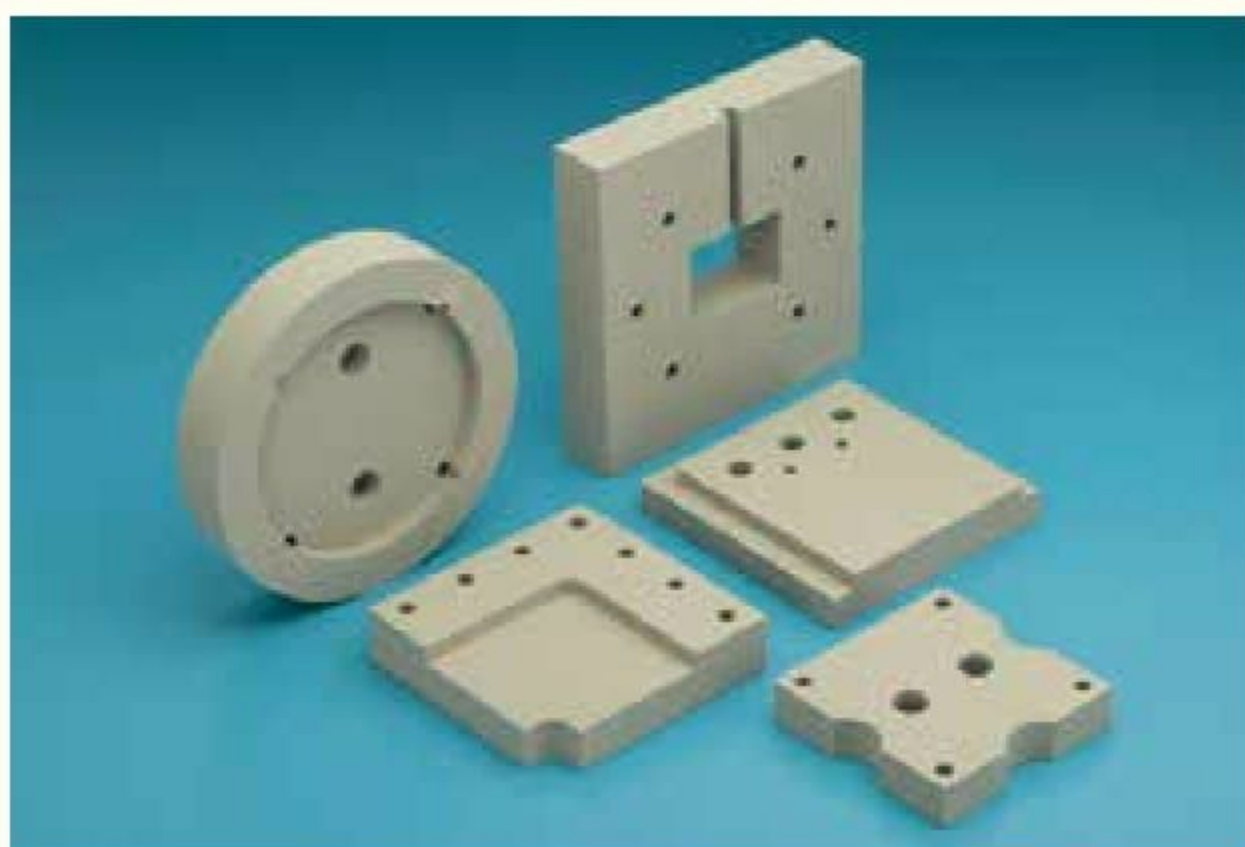
TOMBO No.4350-H/-GH

ROSLIM™ Board H and ROSLIM™ Board GH



ROSLIM™ Board (GH) is a revolutionary product with extremely low thermal conductivity properties and improved brittleness and dust emission characteristics.

With its greatly improved strength, it can be processed into complicated shapes that were previously unattainable. Its handling characteristics and attachment workability have also been greatly improved, making it easy to work with.



We accept orders for processing into a variety of shapes.

Advantages

- Excellent thermal insulation property that surpasses that of still air
- Excellent handling property
- Excellent processing property that eliminates the need for special tools

Applications

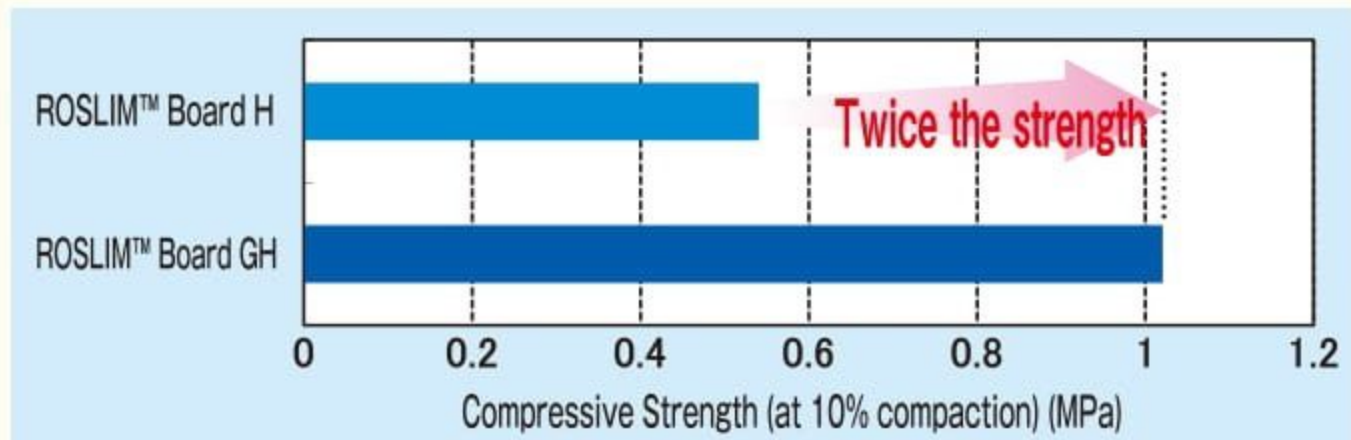
- Insulating material for industrial furnaces (backup material)
- Insulating material for combustion equipment
- Insulating material for melting and holding furnaces

Physical Properties

	TOMBO No.4350-H ROSLIM™ Board H	TOMBO No.4350-GH ROSLIM™ Board GH
Bulk Density [kg/m ³]	250	250
Thermal Conductivity [W/(m·K)]		
at 400°C	0.029	0.030
at 600°C	0.035	0.036
at 800°C	0.044	0.044
Compressive Strength (at 10% compaction) [MPa]	0.54	1.02
Heat Shrinkage [%]		
at 800°C × 24hr	0.6	0.6
at 1000°C × 24hr	2.5	2.5
Maximum Service Temperature [°C]	1000	1000

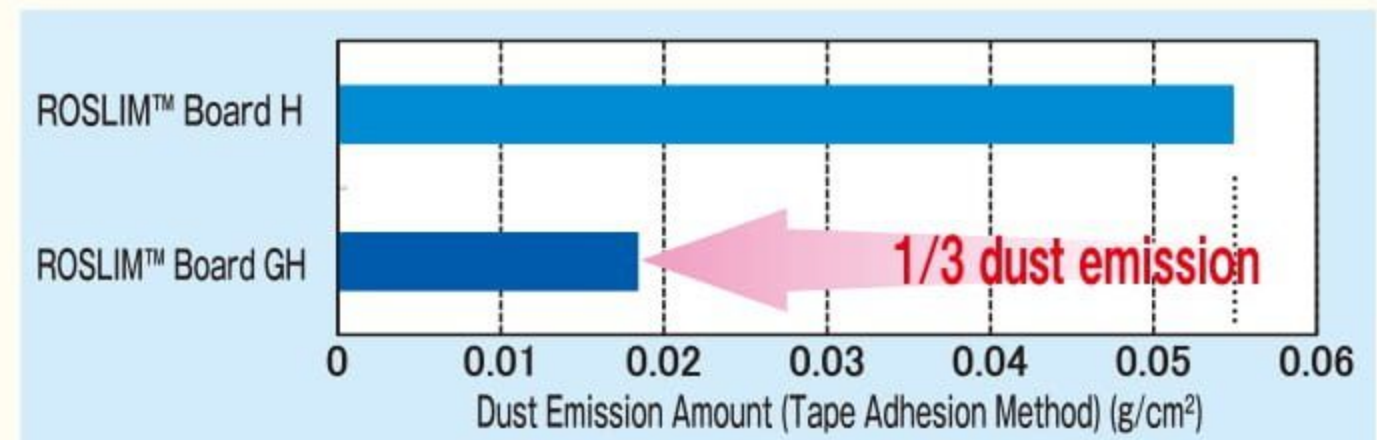
※These figures are test results and should not be used for specification purposes.

Compressive Strength



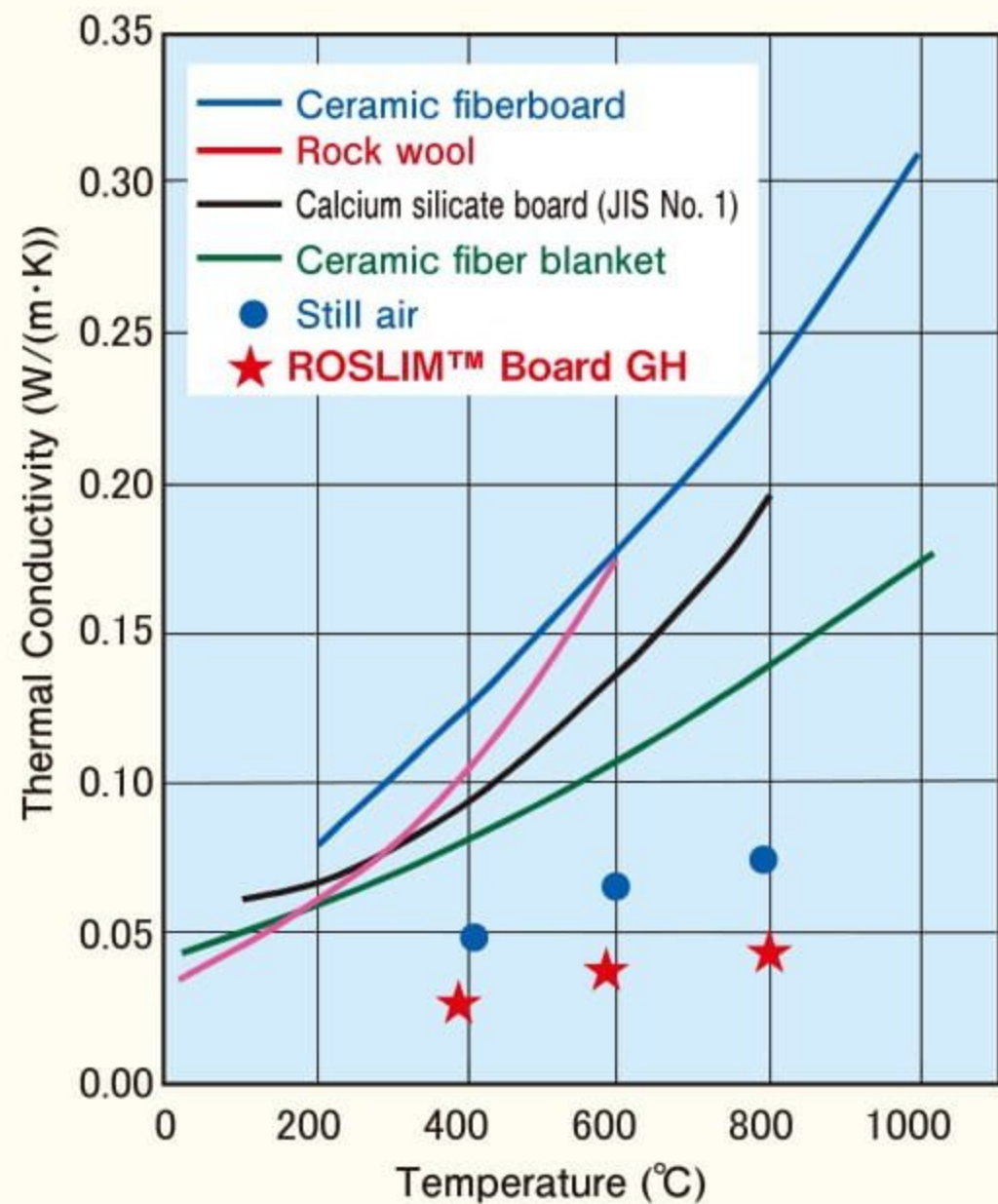
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Dust Emission



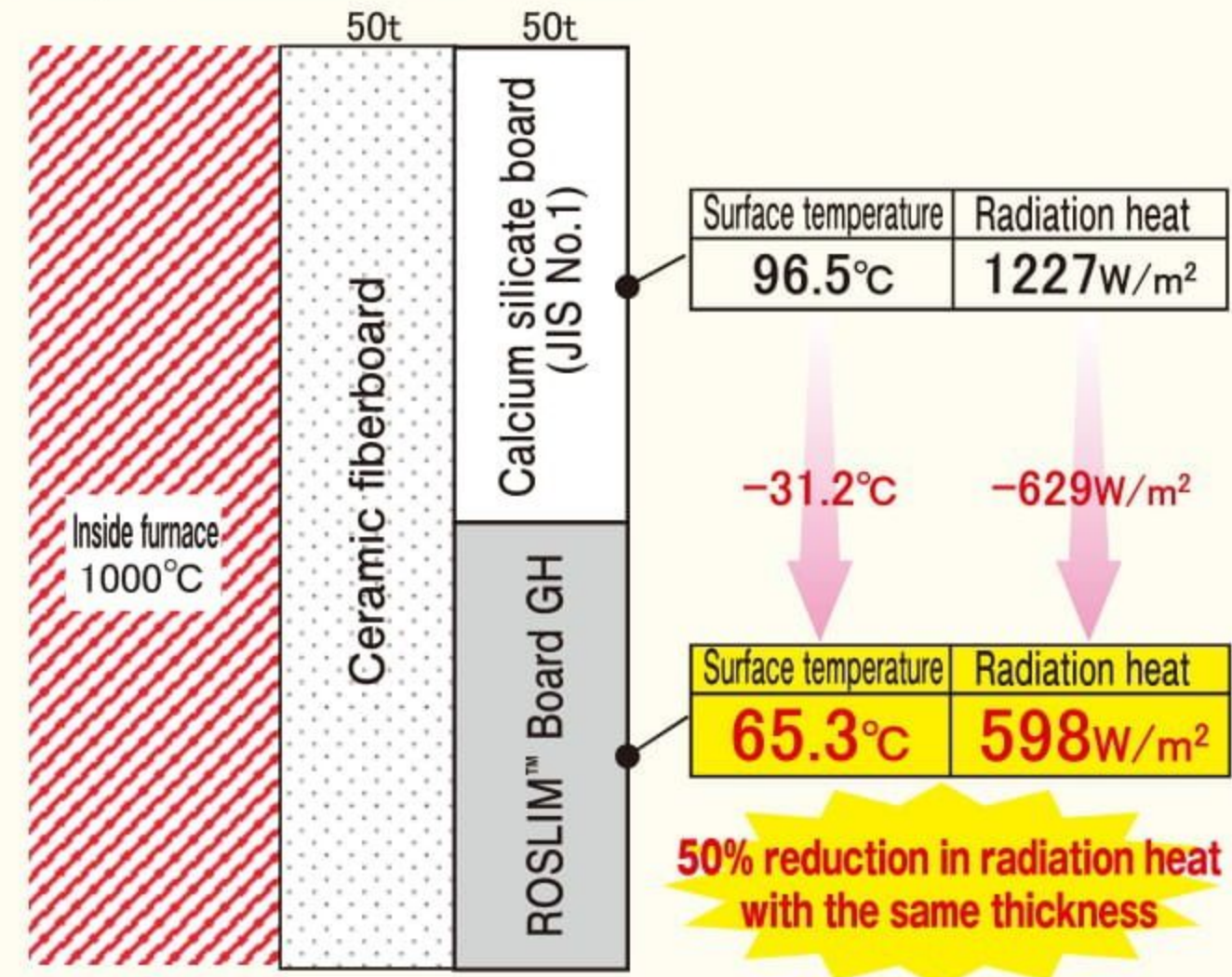
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Thermal Insulation Characteristics



Thermal conductivity comparison of various types of insulation materials

Example of thermal insulation calculation



※Calculation conditions: External temperature: 25°C; Emissivity: 0.9; Wind speed: 0 m/s

※These figures are calculated values and do not guarantee performance.

Cautions for handling the product

- Store ROSLIM™ in a well-ventilated indoor area away from rain. Be careful not to get wet. If it comes into contact with water, it will lose its shape and its performance will significantly decrease.