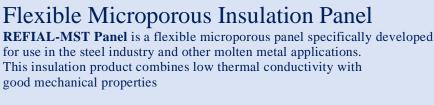


REFIAL®-MST Panel

for use in the steel industry and other molten metal applications. This insulation product combines low thermal conductivity with good mechanical properties



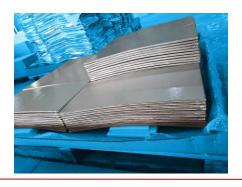
REFIAL-MST Panel is encapsulated in an aluminised envelope, making the panel clean and easy to handle and manipulate. The microporous insulation core is an opacified blend of pyrogenic silica with a filament reinforcement. The aluminised covering is water repellent to ensure the stability of the microporous core if contact is made with moisture laden castable and mortars.

Features and Benefits

- Extremely low thermal conductivity, high thermal stability
- Low shrinkage
- · Low in weight
- High strength
- Wide range of sizes and customised shapes available
- Alternative grades available to suit the application
- Inorganic and non-combustible
- · Shock and vibration resistant
- Simple to handle, cut, and shape
- No harmful respirable fibres
- Environmentally friendly
- Resistant to most chemicals.

Cutting and Fixing

REFIAL®-MST Panels can be easily cut with a sharp knife and fixed in a variety of ways similar to most conventional insulations with glue, retaining pins or anchors, straps or wire. Cut edges can be sealed with aluminium self-adhesive tapes.





Ladles

⇒ Used in steel plants and ferrous metals industry

Tundish

⇒ Containers used to feed molten metal into a mould

Torpedo cars (torpedo ladles)

⇒ Transfer containers, equipment used in steel plants

Degassers

⇒ Used to mechanically remove entrained air and/or gasses from pipe lines and/or liquid systems



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Technical Data

Classification temperature (1) Long time exposure Nominal Density	1000°C 950°C 325 kg/m³	1100°C 1050°C 375 kg/m³
Compressive Strength at 10% deformation	0,80 MPa	0,11 MPa
Thermal Conductivity 200°C 400°C 600°C 800°C	0,022 W/m K 0,023 W/m K 0,027 W/m K 0,032 W/m K	0,028 W/m K 0,033 W/m K 0,044 W/m K 0,057 W/m K
Specific Heat Capacity 200°C 400°C 600°C 800°C	0,92 KJ/kg K 1,01 KJ/kg K 1,04 KJ/kg K 1,08 KJ/kg K	0,92 KJ/kg K 1,01 KJ/kg K 1,04 KJ/kg K 1,08 KJ/kg K
Linear Shrinkage 24h at 950°C 24h at 1050°C	≤ 2,5 % -	≤ 0,5 % ≤ 2,5 %

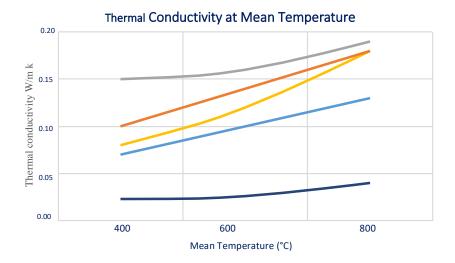
⁽¹⁾ Classification Temperature is not a definition of the operational limit of these products, especially when long term physical or dimensional stability is a factor. For certain applications operational temperature limits may be significantly reduced. For assistance or clarification please contact REFIAL office. info@refraltec.com

Dimension& Size Availability*

Product Type	Length & Width (mm)	Thickness (mm)
REFIAL®-MST Panel	500 X 300(±3)	3,5,7,10(±1)

^{*} Other sizes available upon request

Refractory Insulation Solutions



REFIAL® - MPI products reacts sensitively towards all wet materials such as water, oil, gasoline etc., as these materials destroy its pore structure). Therefore, special coverings and Hydrophobic grade are available, which makes the material insensitive to water and humidity (up to 300°C).

REFIAL®-MPI products offer a realistic alternative to other lightweight insulations

REFIAL®-MPI products offer a realistic alternative compared to other lightweight insulation solutions, such as low density calcium silicate, vermiculite, fibre or wool based blankets and boards.

The thermal resistance provided by REFIAL®-MPI products is a cost competitive alternative to the other lightweight insulation solutions on the market, whilst also delivering benefits in terms of space optimization and reduced weight



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