

REFIAL® -MPI Alu Slatflex

Flexible Microporous Insulation

REFIAL® -MPI Alu Slatflex is a large sized slatted microporous insulation panel.



REFIAL® -MPI Alu Slatflex panels are based on inorganic materials, especially fumed silica and different opacifiers for minimizing infrared radiation. REFIAL® -MPI Alu Slatflex panels are covered with aluminium foil, making the panel clean and easy for handling.

REFIAL® -MPI Alu Slatflex are custom-made and flexible panels, adjusted to the required diameter of the pipe and or of the curved surface.

Special shapes can be milled according to customer specifications.

Features and Benefits

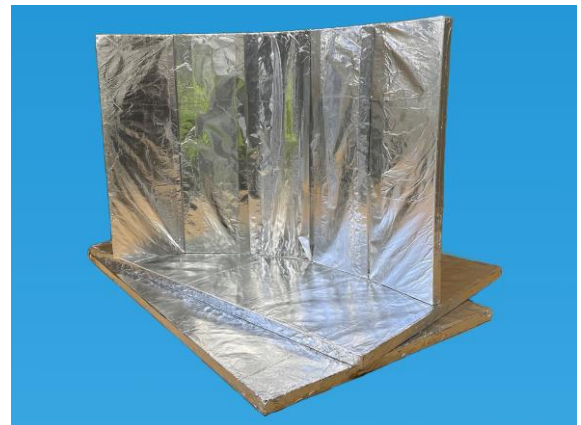
- Extremely low thermal conductivity
- High thermal stability
- Shock and vibration resistant
- No harmful respirable fibres
- Simple to cut and shape
- Environmentally friendly
- Resistant to most chemicals
- Non combustible
- Clean and easy to handle

Cutting and Fixing

REFIAL® -MPI Alu Slatflex microporous Insulation panels can be shaped easily with a simple cutter . The panels can be installed with glue or by metal anchors, pins and clips. On request, these panels can also be custom made according to customer's specification . For insulation of pipes , the flexible panels are installed with wire, straps and or self-adhesive aluminium foil tape.

Typical Applications

- Due to the slatted pattern, the panel is flexible and so Ideal for the insulation of round or curved shapes .
- Energy producing industries, especially in power plant, refineries and lots of other applications, where pipe have to be insulated with most effective insulation materials
- Piping insulation (ideal for large diameters)
- Back-up insulation in refractory lined pipes
- Rotary kiln insulation
- Vessels & reactors
- Hot pipe support insulation
- Exhaust systems



Technical Data

Classification temperature (1)	1000°C	
Colour	Grey/beige/White	
Covering	Aluminium foil	
Bulk Density $\pm 10\%$	300 kg/m ³	
Compressive strength according DIN 53421	1,1 N/mm ²	
Bending strength	0,16 N/mm ²	
Shrinkage at 1000°C/ 12 hours	< 0,5%	
Fire classification according DIN 4102	Class A1 - non-combustible	
Chemical analysis	SiO ₂	$\pm 80\%$
	SiC	$\pm 15\%$
	Others	$\pm 5\%$
Thermal Conductivity	200°C	0,020 W/mK
	400°C	0,024 W/mK
	600°C	0,031 W/mK
	800°C	0,040 W/mK
Storage instruction	Can be stored without shelf life limitation . The material has to be stored in dry conditions.	

(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 REFALTEC office. info@refialbv.com

Dimension & Size Availability*

Product Type	Length & Width (mm)	Thickness (mm)
REFIAL®-MPI Alu Slatflex	700*1100	10,15,20,25

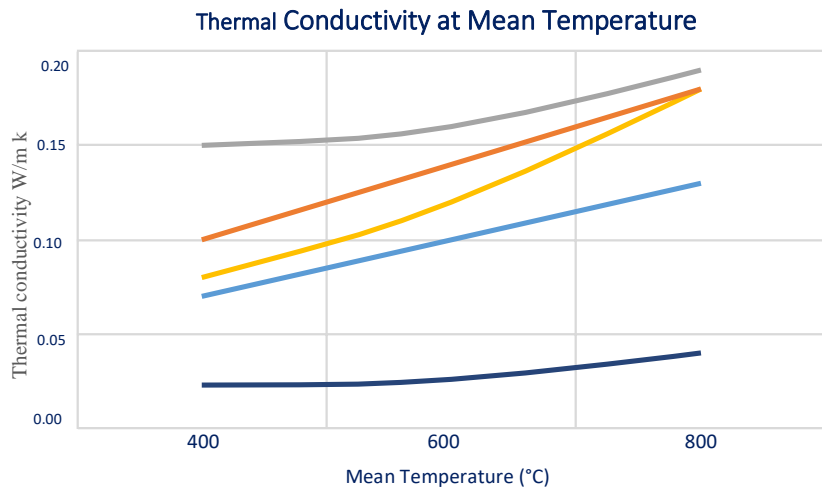
* Other sizes available upon request

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.



Vermiculite 350 kg/m ³	AES Fibre Blanket 128 kg/m ³
Calcium silicate boards 260 kg	AES Fibre Board 320 kg/m ³
REFIAL-MPI 1000	

REFIAL® contains the right to change without notice the properties and values of all products. The given technical values are obtained in specific conditions and are average and indicative. Data is representative of production and are subject to normal production fluctuations, they should not be deemed to constitute or imply any warranty of performance, the user is held responsible for determining the suitability of the products for the given application. Errors and omissions excepted. In case of any doubt if these properties and/or values are matching the application requirements, please contact REFIAL® for advice.