

REFIAL[®] -MPI Flow

Granular Microporous Insulation

REFIAL[®] -MPI Flow is a specially designed pourable microporous insulation product with flow characteristics which make them ideal for filling of voids and complex shapes and cavities.

REFIAL[®] -MPI Flow is an opacified blend of filament reinforced pyrogenic silica.

REFIAL[®] -MPI Flow is the superb choice for applications like complex shapes, voids or closed joints where conventional insulation or rigid microporous insulation cannot be applied.

Features and Benefits

- Extremely low thermal conductivity
- High thermal stability
- No harmful respirable fibers
- Free of organic binders
- Environmentally friendly
- Great flow properties
- Easy to install

Cutting and Fixing

REFIAL[®] -MPI Flow is a pourable microporous powder and can be easily install due to their good flowing properties for pouring and tapping. Similar installation as with dry castables. To obtain the optimal thermal performance, it is necessary to achieve the specified “tap density”, for example by filling under vibration.

Typical Applications

- Fuel cells and reformers
- High temperature voids in refractory Gaps or joints filling for furnace
- Exhaust systems
- Other areas that rigid boards are not suitable for using



Technical Data

Classification temperature (1)		1000°C
Long-time exposure		950°C
Nominal Density		230 kg/m ³
Taped Density		280 kg/m ³
Thermal Conductivity	200°C	0,026 W/m K
	400°C	0,035 W/m K
	600°C	0,044 W/m K
	800°C	0,062 W/m K
Specific Heat Capacity	200°C	0,96 KJ/kg K
	400°C	1,02 KJ/kg K
	600°C	1,08 KJ/kg K
	800°C	1,12 KJ/kg K
Linear Shrinkage	24h full soak at 850°C	≤ 0,5 %
	24h full soak at 950°C	≤ 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@refialbv.com

(2) Other packaging , dimensions may be available on request subject to minimum order requirements.

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).

Dimension & Size Availability*

Particle size : 0,3 – 2,5 mm

Density tolerance : 30 kg/m³

Packaging : 5 kg/Bag , 10 kg/Bag



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