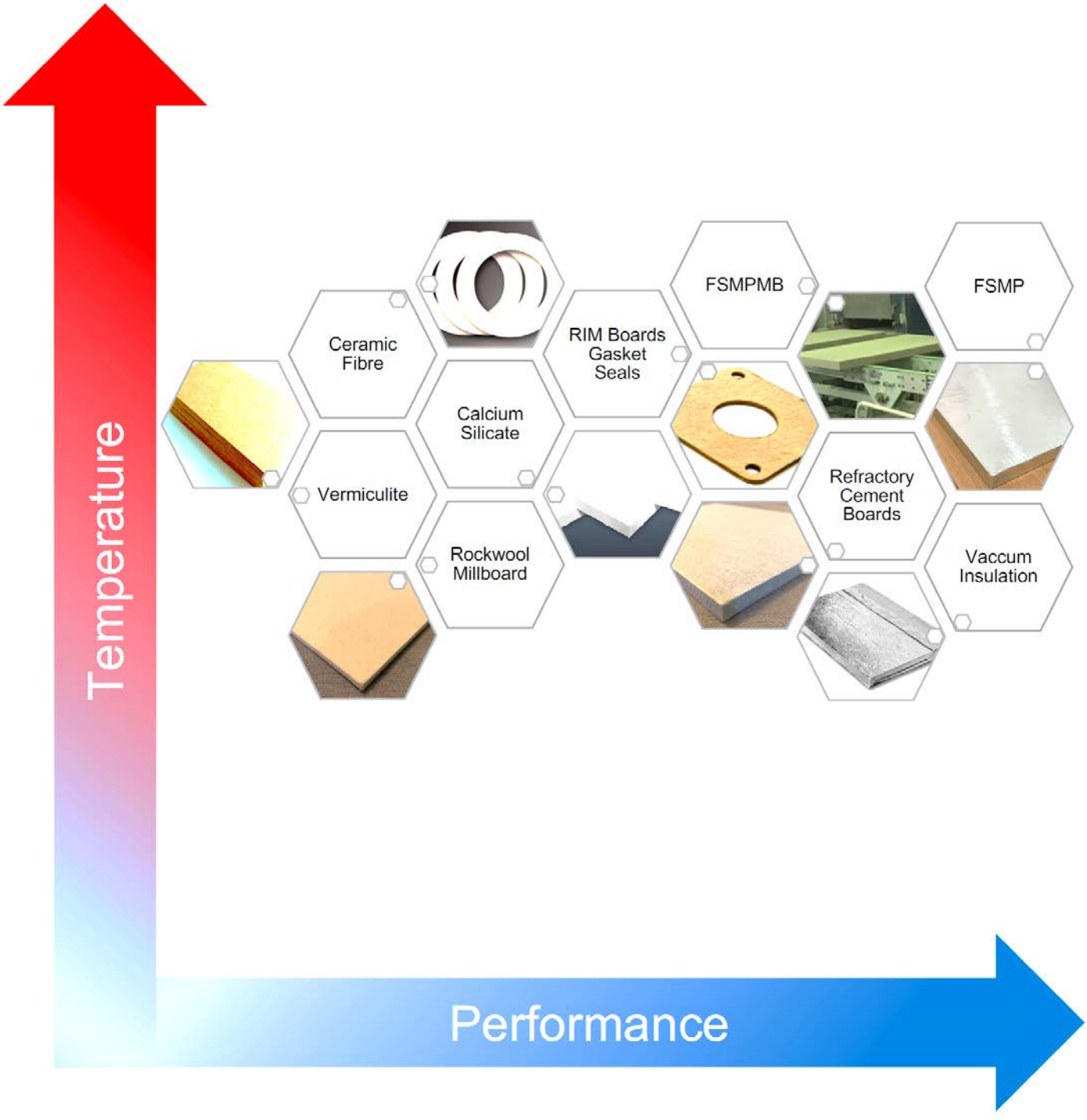
Wedge

Insulation Millboards & Gaskets

High Temperature Resistant | Low Cost | Long Life



Wedge Heat Insulation Materials & Systems

Improved solutions to heat problems are constantly required in most applications and processes starting from (-) 60 °C to 1750 °C to improve operational performance and durability of equipments, reduce heat loss, save energy, save space, and protect environment.

Finding heat insulation system with highest insulation performance (lowest thermal conductivity), high mechanical strength, high service temperature, easiest application, long lasting, and lowest cost is almost impossible. However, thanks to the modern insulation technologies and latest developments in combining wide range of technical properties making it available a wide range of insulation materials & systems to achieve optimized high performance at low cost and long lasting insulation systems at extremely low maintenance cost.

Heat insulating materials usually have a total porosity of at least 45%, in practice mostly from 60 to 90%, and in extreme cases up to 99%. Besides low thermal conductivity, high porosity causes reduced mechanical strength, high gas permeability and low corrosion resistance. The thermal conductivity not only depends on the total porosity of the material, but also on the pore size and shape, the structure composition and the mineralogical composition.

Depending on temperature, the factors responsible for the flow of heat – solid state conduction, convection and radiation – vary in influence. Maximum pore diameters of < 1 mm are necessary. Micro -porous insulating materials with pores < 0.1 µm have the lowest thermal conductivity.

Wedge SSPL manufactures and offers wide range of Insulation materials & systems designed in-house, manufactured with high quality raw materials, and fabricated to highest precision. Our insulation materials are most suitable for all types of surfaces straight and cylindrical.

Wedge Insulation systems satisfy the demand for optimum planning, thermal profiles, ready to use shapes, lower thickness, easy installation, high insulation performance, long life, and lower maintenance cost.

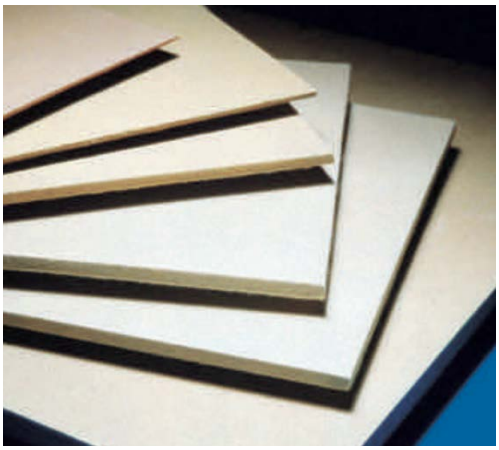
Our wide range of insulation products include: Microsilica, Fumed Silica, Nano-porous, Microporous, Millboards, Magnesium Silicate, Calcium Silicate, Perlite, Vermiculite, Refractory Fibre Cement, Ceramic Fibre, Glass Wool, Slag Wool, Foam Glass, Aerogel, Vacuum Insulation.

RIMB | High Temperature Millboards & Gaskets

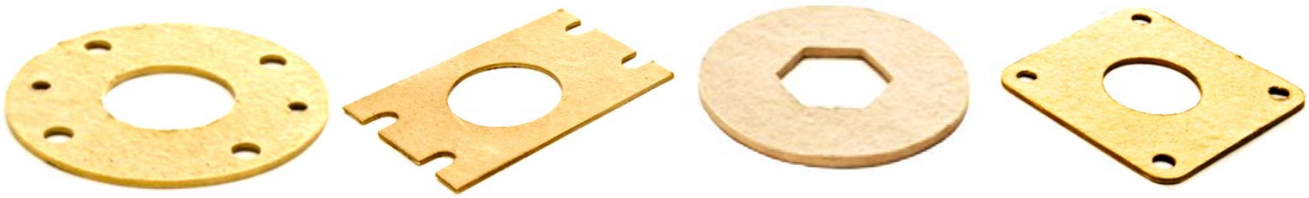
Wedge RIMB are Refractory Insulation Millboards sheet, gaskets, and seals are made of high quality refractory mineral fibres such as wollastonite, calcium silicate, rockwool bonded with high temperature clays. These insulation boards possess unique combination of properties for various industrial applications in furnace backup insulation, high temperature gasketing & seals.

- Very Strong Boards with high compressive strength.
- High temperature resistance from 1000 to 1200°C.
- Very low Thermal Conductivity at high temperatures.
- High Electrical Resistance at high temperature.
- High fire resistance and heat shield properties.
- Easy to cut and punch.
- Adaptable by wet moulding for pipe insulation.

Applications:



- Ladle & Tundish Insulation.
- Lime Kiln and Cement Kiln Insulation.
- High temperature insulation Gaskets.
- Boiler & Furnace Insulation.
- Oil & Gas Burners Insulation.
- Furnace, Dryer, and Oven Insulation.
- High temperature Pipe Insulation.
- Refractory insulation expansion joints.
- Metal clad Gaskets fillers.
- Gaskets for centrifugal casting.
- Glass rollers as washers on mandrel.
- Stainless Steel Plant Rollers Insulation.
- Electrical & home appliances insulation gaskets.
- Fire Resistant Doors, Lifts, Safes, Cupboards.

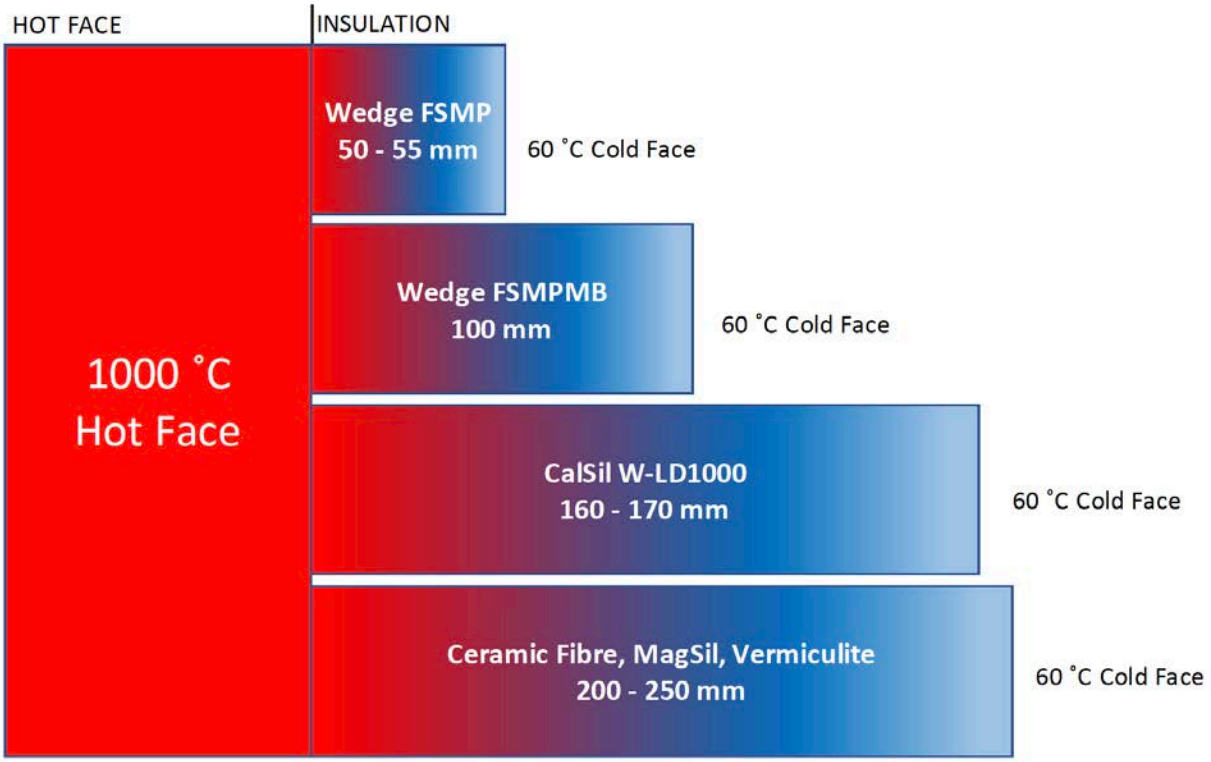


RIMB-A | Technical Datasheet

Properties	RIMB 1000 A	RIMB 1100 A	RIMB 1260 A
Colour	Brown	Buff	White
Classification Temperature, °C	1000	1100	1260
Density, Kg/M3	1000	1000	1000
Thermal conductivity, W/m.K			
400 °C	0.11	0.12	0.11
600 °C	0.12	0.13	0.12
800 °C	0.14	0.14	0.13
Electrcial Resistance, ΩXx109 /cm2	7.9	4.2	2.4
Tensile Strenght, Mpa	5	5	5
Flexural Strength, Mpa	7	6	6
Shrinkage % @ 1000 °C	2	1.8	1.6
Compression % @ 21 Mpa	36	34	30
Loss on Ignition %	11	8	7

RIMB-B | Technical Datasheet

Properties	RIMB 850 B	RIMB 1000 B	RIMB 1100 B	RIMB 1200 B
Colour	White	Beige	White	Brown
Classification Temperature, °C	850	1000	1100	1250
Density, Kg/M3	900	1000	950	950
Thermal conductivity, W/m.K				
400 °C	0.11	0.12	0.12	0.12
600 °C	0.12	0.13	0.13	0.13
800 °C	0.13	0.16	0.15	0.16
Tensile Strenght, Mpa	3.5	4	3.2	3.5
Shrinkage % @ 1000 °C	2	1	2	1
Compression @ 70 Kg/cm2	15	11	8	
Loss at 800 °C, %	15	12	11	15



Wedge Insulation Products - Most Effective Low Cost Insulation System