

INSULATION MATERIALS

Insulation materials are indispensable in the drive to achieve operational energy efficiency. They are essential in the control of environmental conditions thereby reducing the operational energy load. Insulation enhances the thermal performance by reducing heat gain in hot weather and heat loss in cold weather thereby limiting the need for cooling and heating. However, conventional insulation materials have high embodied energy values.

- **Hylam sheets**

Hylam sheets are used where mechanical strength, wear resistance and resilience are more important than electrical insulation. Typical applications of fabric laminates are gears, textiles shuttles, bearings, pickers, bushes and marine application. Different grades offered to suit specific applications.

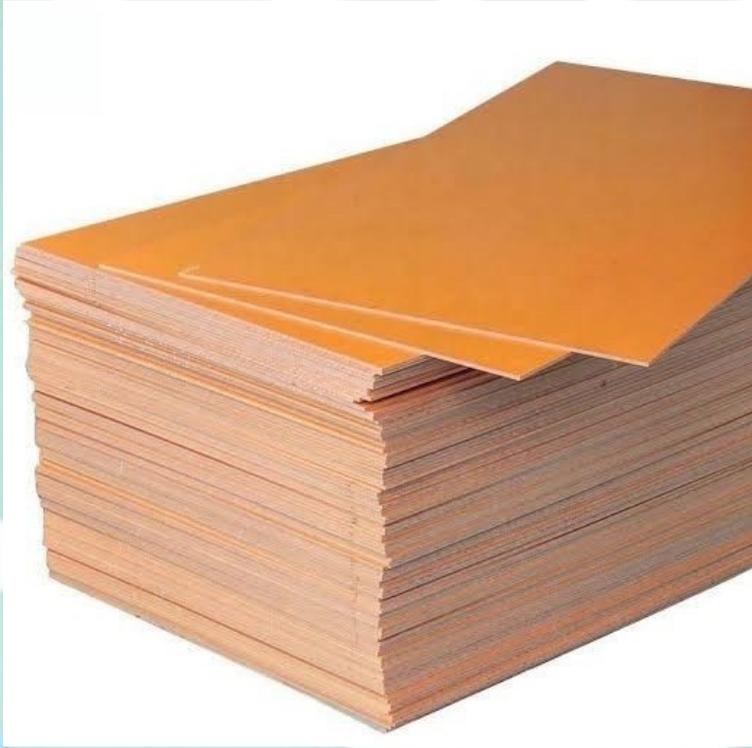
- **Rods**



- **Fabric base**



- **Paper base**





- **Syndanio sheets**



Syndanio sheets have good insulation & very high compressive strength, thermal and electrical insulation board suitable for applications requiring high mechanical strength at high temperature.

Advantages

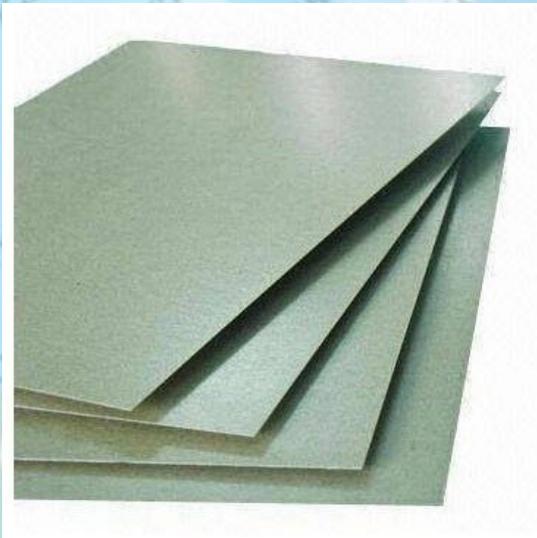
High Mechanical strength
Precise to machine and work
Various grades available up to 550 °C
Thermal Insulating
Non-Combustible & Non-ignitable
High electrical strength and arc resistance
Dust – free surface
Asbestos free and safe in terms of working hygiene

Applications

Induction Furnace parts
Arc Furnaces
Electrical heater mounts
Insulating Truck Beds Carrying Billets
Chimney supports
Heat Barriers
Backup insulation
Fire proof parts

- **Millboard**

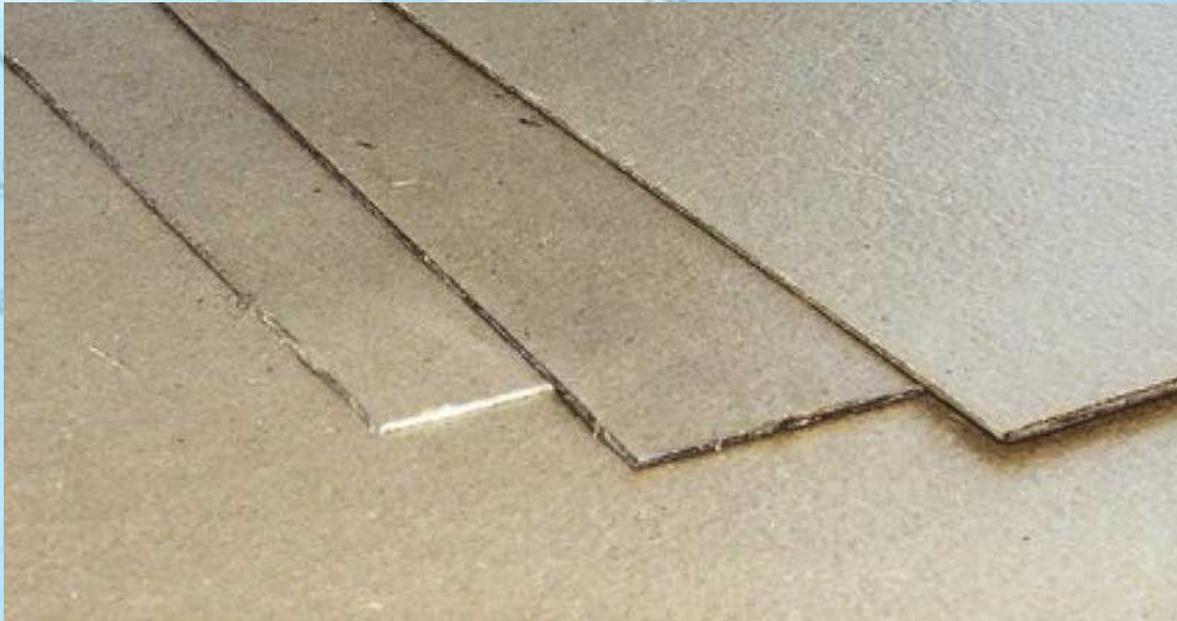




Millboard sheets are non-asbestos and non-ceramic fibre. They are for high temperature applications in centrifugal casting. These fibre boards possess high temperature capability, in excess of $1,000^{\circ}\text{C}$, and low thermal conductivity (K value), less than 0.1 W/mK , making them the first choice for thermal insulation applications.

Millboard is commonly used as an insulating barrier between endplates and the metal being poured so endplates do not have to be coated with mold coating with each cycle. Millboard usage has been successful in preventing metal from sticking to the endplates, resulting in lost production time or scrap endplates or castings.

- **Mica sheet**



Mica

The term Mica describes a group of minerals which have excellent fissility properties due to their silicate layer lattice. Mica has a lamellar non-fibrous structure and has been developed for manufacturing of gaskets for high temperature applications. Mica gaskets are used in the automotive sector, gas turbines, gas and oil burners, heat exchangers and in other flange connections. Mica gaskets are made from a material which consists of phlogopite mica paper and is waterproofed with a silicone binder. A special heat resistant steel provides mechanical reinforcement in the form of corrugated metal ring inserts, eyelets and/or sheet reinforcement inserts. Both the media resistance of mica as well as the metallic reinforcement and eyelet elements have to be considered for application with aggressive substances. Excellent temperature resistance, constant temperature up to 800 °C, short term temperature up to 900 °C

Applications

Use in the area of hot gases specifically flue gas, exhaust fumes, thermal processes
Combustion plants and motors

Non-metallic gaskets for pipeline flanges, device and container flanges

Product Range

Non-metallic gaskets

Possible as layer for serrated gaskets and corrugated metal gaskets and as filler for spiral wound gaskets

Non-standard dimensions/sizes

Mica corrugated metal gasket with or without inner eyelet

Mica non-metallic gasket with sheet reinforcement insert, with or without inner eyelet and/or outer eyelet

If you can't find what you are looking for, or require a bespoke product, please do not hesitate to contact us.

We will manufacture as per the specifications, drawing or sample provided by you .

Customer Service

We are happy to answer any questions that you might have about this product. Please contact us for more information.

Delivery / Shipping

Orders are processed as quickly as possible. Please allow a few days for delivery of your order.

International deliveries can be arranged for you. Additional shipping costs can be quoted on request.

Returns Policy

While every effort will be made to fulfil your order correctly, if for any reason you do not receive the correct goods then please contact us and we will be happy to correct your orders.

