Thermosil / Alpha

INDUSTRIAL INSULATION MILLBOARD (ASBESTOS)

PRODUCT CHARACTERISTICTS

- is made form a blend of high quality canadian chrysotile asbestos fibres and other incombustible inorganic ingredients
- is compactly bound
- is strongly with a smooth surface
- is available in low thicknesses
- has rigidity as well as flexibility
- has low thermal conductivity
- has high temperature resistivity
- can be easily cut, punched or wet molded
- gives clean edges while cutting gaskets

PRODUCT CHARACTERISTICTS

Grade TS-101 / NE -1001

- general purpose grades for high temperature insulation (both grades have similar properties)

Grade TS-301

- Superior grade for specialised applications e.g. automobile gaskets, sheet glass roller conveyors, padding in the steel industry etc.

Grade A1-111

- Single lamination millboard made on a new Fourdinier machine.

Grade A1-333

- Superior grade of single lamination millboard for automobile gaskets available in rolls or sheets.

APPLICATION

- a versatile material used for widely divergent applications

For insulation :

- in Electric Arc,. Induction and other Fumaces
- in Boilers and ovens
- in Kerosene Wick Stoves
- in Electrical Appliances like Domestic Presses
- in Steam and Hot Air Pipelines and Ductings

For Automobile Gaskets :

- in Cylinder Head and Exhaust Manifold Gaskets

For Padding:

- in Ball Mills
- in Expansion Joints
- in Steel Strip industry

For Construction of Roller Conveyors:

- in Sheet Glass Industry
- in Annealing Fumaces

For Fire Safety :

- in Fire-Proof Safes and Cupboards
- in Fire-check Doors

For Environmental Safety :

- as Covers for Ladles, Pots, ingots, etc. to protect workmen
- as Base Mat for placing Hot Metals

For Protection of Plant and Equipment :

- as Gaskets while poring Molten Metals in Steel & Aluminum Industries
- as Lining below the Mould in the Casting Industry

Grades	TS-101/NE-1001	TS-301	AI - 111	AI - 333 & PAPER
Thickness availability (mm)	1.5-25.0	0.75-12.5	1.0-2.0	0.18-2.0
Nominal Density (gms/cc)	1.15	1.10	1.08	1.08
Tensile Strength (min)				
-Along grain (Kg/Cm^2)	28	45	36	45
-Across grain (Kg/Cm^2)	12	24	18	28
Loss on Ignition at 800°C (max)	15%	18%	15%	18%
Thermal Conductivity @ 150°C mean temp. (W/m°C)	0.116	0.110	0.116	0.110
Moisture Content (Max)	2%	2%	2%	2%
Electric Strength (Proof) in air @ 90°C	1.5kV/mm	1.5kV/mm	1.5kV/mm	2.0kV/mm
Temperature Resistance	500°C or higher if suitably supported			