



ROCKLOYD MATTRESS

LIGHTLY RESIN BONDED, MACHINE STITCHED, MACHINE LAID ROCKWOOL



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ROCKWOOL MATTRESS.**

MATTRESS GRADES : 100, 120, 150

SERVICE TEMPERATURE : -100 °C to +800 °C

PRODUCT

ROCKLOYD is a precisely engineered Resin Bonded Fibrous Insulation to offer maximum resistance to heat passage. Rockloyd fibres are spun from selected rocks, melted at 1600°C and blended to a carefully adjusted chemical composition. Its centrifugally spun fibres have a diameter 1/20th that of human hair which are felted using State of the Art Technology into bonded and cured mattress to optimum density and resilience.

Over 25 million sq. mts. of Rockloyd Insulation are in services in prestigious projects within the country saving millions of tones of fuel year after year.

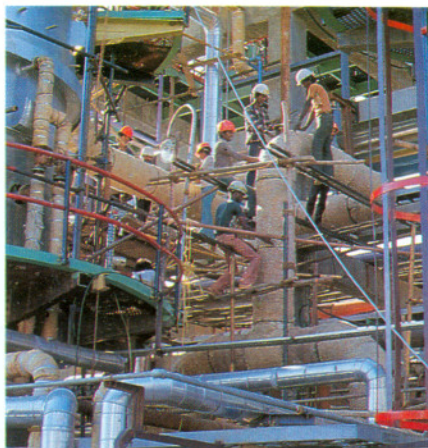


WHY RESIN BOND & MACHINE STITCH

ROCKLOYD, like all scientifically processed fibrous insulants is composed of fibres which are laid in the optimum configuration to offer maximum resistance to heat flow. To retain these exceptional properties up to the point of end-use, fibres are interlocked by lightly bonding them together using a thermosetting binder. Subsequently, matts are factory stitched to specified wire mesh using a continuous stitching machine to permit a ready-to-use configuration.

SALIENT FEATURES

- Higher Thermal Performance, as it is made out of Rockwool and not slagwool.
- Eliminates setting and sagging.
- Longer Life, permitting reuse after removal during maintenance.
- Environment Friendly, as there is no chicken feathering (which normally pollutes the environment). It is ECO friendly to personnel due to the chemistry of fibres.
- Uncontaminated, as manufacturing is totally a Dry Process.
- Application Friendly, as it permits very fast installation.
- Can feature Resistance to Capillary if needed



SPECIFICATION CONFORMANCE

Rockloyd mattresses manufactured from select rocks to State of the Art Specification fully conform to local & International Standards such as,

IS : 8183 - 1993
BS : 3958 Part - 3
ASTM C592 - 80
Approved for A-60 class insulation.*

* The only product in India.

TECHNICAL SPECIFICATIONS

- Standard Densities : 100, 120 and 150 Kg/m³
- Application Temperatures : -100°C to +800°C
- Standard Thickness* : 25, 40, 50, 65, 75mm
- Standard Size : 1520 x 1220 mm
- Other thickness from 20 to 100 mm in steps of 5 mm can also be made available

CORROSION - PROTECTION

Rockloyd fibres, in the first place, are devoid of impurities like Halides (Chlorides & Fluorides) and Sulphides which are commonly found in other materials such as Calcium Silicate. This is due to the fact that Rockloyd fibres are manufactured by a dry manufacturing process and its faint alkalinity actually fight against corrosive reactions. It meets various critical specifications including ASTM C-795 requirements where specified.

This feature is responsible for its exclusive selection for critical applications such as Nuclear Power plants, Ship building and Railway coaches where corrosion resistance is of vital significance.

FIRE RESISTANCE

Incombustible when tested as per IS:3144 (Melting Point of fibres is above 1000°C (1825°F))

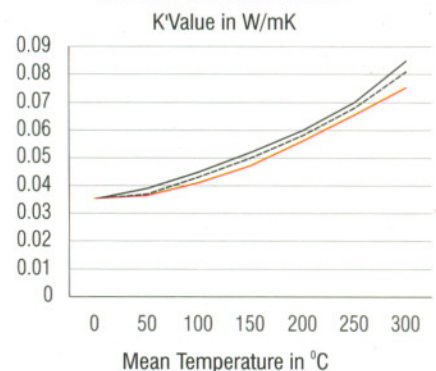
COMPRESSION RESISTANCE & SOUND ABSORPTION

Excellent compression resistance and sound absorption by virtue of its scientific fibre lay pattern which ensures controlled dispersion of air pockets.

THERMAL CONDUCTIVITY

Resin Bonded Rockloyd material is the only one to offer the LOW THERMAL CONDUCTIVITY to weight ratio among all industrial insulants thus minimising the total load on the applied equipment.

THERMAL CONDUCTIVITY CHART ROCKLOYD K'VALUE GRAPH



THE ROCKLOYD FAMILY



- Consult us for recommendation on thickness of Insulation and application to suit your end use condition.

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