ROCKWOOL INDIA
Excellence Through Insulation Pvt Ltd

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ROCKINSUL

ROCKINSUL PIPING INSULATION

www.rockwoolindia.com

ROCKWOOL INDIA
Excellence Through Insulation Pvt Ltd

Rockwool India Pvt Ltd. (RIPL) is the leading producer of Stonewool insulation technology in India. We have manufacturing facilities in both Hyderabad and Silvassa, with a combined capacity of 50,000 MT per annum. RIPL is a technical licensee of Saint-Gobain ISOVER technology, France and is ISO 9001 certified and ASTM compliant.

Pipe Insulation

Pipe insulation is a crucial element in building the perfect thermal system. It's importance is often overlooked but must be carefully considered when making development and design decisions regarding a facility's safety, efficiency and energy usage.

Constructed from a wide range of materials, pipe insulation can serve a variety of practical functions. It's main purpose involves forming a thermal barrier between a pipe and the room which it runs through. However, it provides many other benefits such as preventing water damage, preventing moisture based corrosion, avoiding heat loss or gain in temperature controlled areas, and dampening unwanted noises from pipework.

Insulating your pipework is a vital part in ensuring your building safety. Uninsulated pipework can lead to corrosion, decreased pipe efficiency, frozen pipes, leaking pipes, and the endangerment of the workers and occupants around them.

Types of Pipe Insulation

- **Hot Pipe Insulation** - High quality hot pipe insulation can prevent heat loss systems and offer fire protection for piping at high temperatures.
- **Cold Pipe Insulation** - High quality cold pipe insulation can help ensure drinking water and cold air in buildings is kept at desired temperatures.

ROCKINSUL Pipe Insulation

ROCKINSUL Pipe Insulation sections are made from non-combustible inorganic stonewool and are suitable for the insulation of small diameter (0.5 inch) to large diameter (upto 24 inches) pipes and insulation thickness from 25 mm to 100 mm. ROCKINSUL Pipe sections are available unfaced or faced and will be delivered either in 1m or 1.2 m length.

Applying insulation for cold pipes can lead to energy savings of up to 50%, while insulation for hot piping can result in energy savings up to 20%. In general pipe insulation can create a return on investment within 3 Yrs., which may vary depending on the site conditions.

Aluminium faced and aluminium laminate faced piping products are designed for hot and cold sections respectively. Both are available at a medium density (up to 100kg/m3).

Insulation thickness is determined by the following:

- Temperature range at which the unit operates.
- Medium temperature of the piping or duct.
- Additional measurements to take into the calculation (Legionella prevention or increased energy performance).
- Environment conditions (humidity in % and temp in °C).

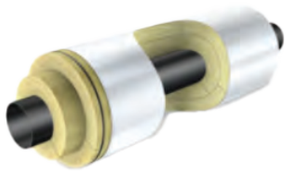
Advantages of Pipe Insulation

- Increases overall operating efficiencies by regulating energy loss and avoiding unnecessary operating expenses.
- Controls and stabilises process temperatures.
- Prevents condensation and pipe corrosion.
- Protects against freeze/thaw damage and pipe breakage.
- Shields workers against sudden injury from pipe damage and exposure to extreme temperatures.
- Lowers noise and vibrations travelling along the pipeline.
- Insulates pipeline with non-combustible and fire-resistant materials.

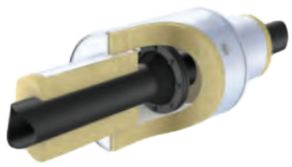
Table: ROCKINSUL Pipe Sections – Technical Specification

Characteristics	Unit	Quantities & Measured Values	Standard
Dimension	-	Diameter: 1/2" - 24" (Tolerance : -0/+5 mm)	ASTM C 547
		Length: 1.2 m – 1.25 m (Tolerance : +/- 3 mm)	
Thickness	mm	25 – 100 mm, Varying as per the diameter of pipes	
Density	Kg/m^3	100 – 160 Kg/m3 (Tolerance : +/-10%)	
Facing	-	Aluminium Foil (FSK) / Aluglass (ALG)	-
Thermal Conductivity of 100 Kg/m^3, 50 mm thickness @ mean temp of 500°C	W/mK	0.037 W/mK	ASTM C335, C335M
Service Temperature	°C	750 °C	ASTM C411
Melting Point	°C	>1000°C	ASTM E749
Surface Burning Characteristics	-	Flame Spread Index: <25	ASTM E84, UL 723
		Smoke Developed Index: <50	
Water Leachable Chloride / Corrosiveness	ppm	<10 ppm	ASTM C692, ASTM C871
Fungi Resistance	-	Does not promote fungi growth	ASTM C1338-00
Water Vapor Sorption (Moisture Resistance)	%	<1% by volume	ASTM C1104, ASTM C1104M
Water Absorption (Partial Immersion)	Kg/m^2	<0.5 Kg/m^2	BS 2972 Part 11
Linear Shrinkage	%	2% Max	ASTM C356

Application Area



Straight Pipelines



Pipe Elbows

Valves and Flanges

Our Work

Reliance Industries Limited

Welspun India Limited

Rockwool India Private Limited

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