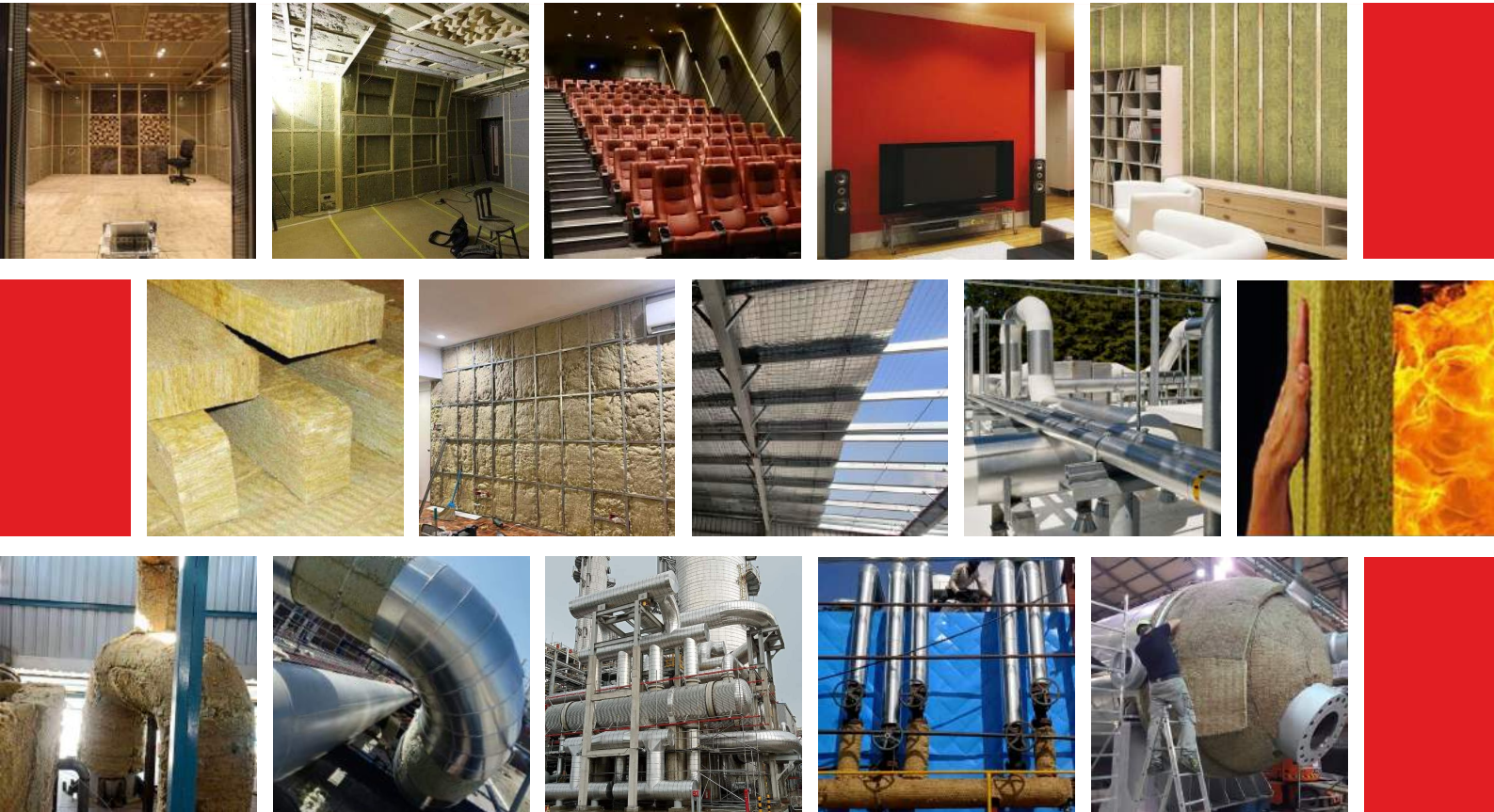


polybond

An ISO 9001:2015 Certified Company



polybond **INSULATION**

 Conserve **Energy** To Conserve **Nature** 

CELEBRATING
25
YEARS
1995-2020

Polybond Insulation Pvt. Ltd.
www.polybond.co.in

An ISO 9001:2015 Certified Company



COMPANY PROFILE

Driven by a commitment to quality and innovation, Polybond Insulation Private Limited has been a trusted leader in the manufacturing of Mineral Wool in India since 1995. With state-of-the-art facilities, rigorous quality control, and a wide range of customizable insulation solutions, we have established ourselves as a reliable partner for industries nationwide.



Polybond Insulation Pvt. Ltd.

www.polybond.co.in

ABOUT US



Polybond Insulation Private Limited, established in 1995, is a leading manufacturer of Mineral Wool Insulation products in India. We specialize in the production of **thermal, acoustic, and fire-retardant** insulation materials. With a solid reputation in the industry, Polybond has built a strong client base since its inception.

To expand our manufacturing capacity, in 2008, we established an additional facility named Polybond Projects Private Limited in Rasmada, Durg, Chhattisgarh State, India. In 2012, we further expanded with the addition of Polybond Rockfibre Private Limited in Bakal, Rajnandgaon, Chhattisgarh. These manufacturing units collectively cover a large area of land, with approximately 40% as built-up area.

As the largest manufacturer in India, our annual production capacity is 40,000 MT, allowing us to cater to various industrial sectors nationwide. Our infrastructure includes well-equipped work units, such as process control sections, stores, laboratories and warehouses.

Polybond is committed to quality and operates as per ISO 9001:2015 guidelines. We prioritize customer satisfaction and maintain control at all levels of our manufacturing process, from procurement and testing of raw materials to quality control checks and meeting customer requirements.

Located strategically and well-connected by road, air, and rail transport, we ensure timely delivery of our products to clients across the country. Polybond Insulation Private Ltd is also a registered member of the Confederation of Indian Industries, further emphasizing our credibility and commitment to the industry.

Polybond Insulation Pvt. Ltd.

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DEVELOPMENT **TIMELINE**

1995

- Polybond Insulation Private Limited is established, specializing in the manufacture of Mineral Wool Thermal Insulation products.
- The company begins building a solid client base in the insulation industries.

2008

- Polybond sets up an additional manufacturing facility, Polybond Thermal Projects Private Limited, in Rasmada, Durg, Chhattisgarh State (India) as a part of its capacity expansion drive.

2012

- Polybond adds another manufacturing facility, Polybond Rockfibre Private Limited, in Bakal, Rajnandgaon, Chhattisgarh (India), further expanding its operations.

2020

- Successfully completion of 25 years of service and customer relationship.

2023

- Polybond has become the largest manufacturing capacity in India, with an annual production capacity of 40000 MT.
- The manufacturing units collectively possess a well-covered built-up area.
- The company's work units include precise process control sections, well-managed stores, raw materials stockyard, fully equipped laboratories and well-maintained warehouses.
- Polybond is an ISO 9001:2015 & OHSAS 45001:2015 certified company and its workflow is defined as per ISO guidelines, ensuring adherence to quality standards.

VISION

Our vision is to be the foremost provider of high-quality insulation solutions, setting industry standards and driving innovation in the field. We strive to be recognized as the preferred choice for our customers, delivering reliable and sustainable products that enhance energy efficiency, safety, and comfort in buildings and industrial sectors. Through continuous improvement, technological advancements and customer-centric approaches, we aim to create long-term value for our stakeholders while contributing to a greener and more sustainable future. By fostering a culture of excellence, collaboration and environmental stewardship, we envision Polybond Insulation Private Limited as a trusted leader, shaping the future of insulation in India and beyond.



MISSION

Develop and manufacture high-quality insulation products to meet diverse need of customers and exceed their expectations.

Continuously innovate and improve products and processes to enhance energy efficiency and contribute to a sustainable future.

Build strong and lasting relationships with our clients by providing exceptional services and reliable solutions.

Foster a culture of excellence, teamwork, and environmental responsibility to drive the growth and success of our company.



KEY FACTORS

Innovative insulation solutions for a sustainable future.

01

Quality

Committed to delivering high-quality insulation products that meet industry standards and exceed customer expectations.

02

Responsibility

Boasting the largest manufacturing capacity in India, with an annual production capacity of 40,000 MT to cater to diverse industrial sectors.

03

Product Range

Specializing in **thermal, acoustic, and fire-retardant** insulation materials, offering comprehensive solutions for various customer needs.

04

Infrastructure

Well-equipped work units, including process control sections, stores, laboratories, and warehouses, ensuring efficient operations and resource availability.

05

Geographical Presence

Strategically located manufacturing units in Bhilai, Borai and Bakal, enabling nationwide coverage and timely service to clients.

06

Certifications and Memberships

ISO 9001:2015 and OHSAS 45001:2015 certified, and registered member of the Confederation of Indian Industries, showcasing commitment to quality, safety and industry involvement.

EFFICIENT THERMAL INSULATION SOLUTIONS FOR ENERGY CONSERVATION

General Information:

The need for efficient thermal insulation has become paramount in various industries and processes due to increasing energy costs. 'polybond' Mineral Wool products provide excellent thermal insulation properties, offering a total solution for energy conservation.

Process:

'polybond' Mineral Wool is made by melting basalt stones/slugs blended with coke and limestone. Using highly advanced technology, the raw basalt stones/slugs is melted at high temperatures, resulting in hair-fine fibers. These fibers are then bound together with a thermosetting resin binder and spread uniformly on a conveyor belt. Special additives are impregnated to provide water repellence to the end products.



Benefits of Mineral Wool Thermal Insulation:

- 1.Reduce heat losses and minimize energy waste.
- 2.Increase fuel savings by improving energy efficiency.
- 3.Ensure personnel protection from fire hazards.
- 4.Create comfortable working conditions by maintaining optimal temperatures.
- 5.Reduce sound levels and provide acoustic insulation.
- 6.Control temperature drop and prevent thermal fluctuations.
- 7.Prevent condensation on ducts and pipes, avoiding moisture-related issues.
- 8.Enhance overall energy conservation efforts and contribute to a sustainable future.
- 9.Fire safety

OUR RANGE OF PRODUCTS

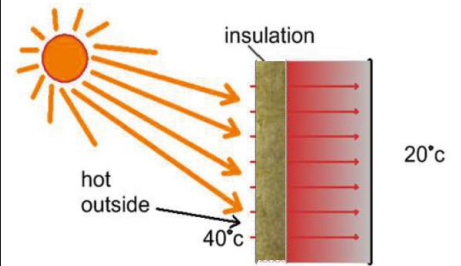


S. No.	Product Type	Density (Kg/m ³)	Max. Service Temp.	Dimensions (mm)	Finish
1	“Polybond” Resin Bonded Slab (RB Slab)	48-200	750° C	Len. x Bth. 1000 x 500 1200 x 600 Thick. 25-100	With or without Al. Foil / BGT / WGT / Alu. Glass.
2	“Polybond” Building Roll	48-96	550° C	Len. x Bth. 7000 x 1100 5000 x 1100 Thick. 25-100	With or without Al. Foil one side.
3	“Polybond” Lightly Resin Bonded Mattress (LRB Matt.)	80-160	750° C	Len. x Bth. 1640 x 1220 3280 x 1220 4920 x 1220 5000 x 800 Thick. 25-100	G.I / S.S Wire Mesh one side or both side.
4	“Polybond” Sectional Pipe Insulation (SPI)	128-160	750° C	Len. – 1000 Thick. 25-100 NB. 0.5”-16”	With or without Al. Foil one side.
5	“Polybond” Loose Mineral Wool	-	750° C	40 Kg / Bag	-

OUR PRODUCTS **PROPERTIES**

Thermal Insulation:

- Importance of efficient thermal insulation due to increasing energy costs at high temperatures in processes and industries.
- Acts as a barrier to heat transfer, keeping out unwanted heat in summer and preserving warmth in winter.
- Provides dual benefits of thermal insulation and acoustic insulation.
- Reduces energy costs and greenhouse gas emissions.
- Odorless, asbestos-free, and does not encourage microorganism growth.



Acoustic Insulation:

- Effective in reducing external noise for buildings and cabins.
- Reduces noise generation within buildings and enclosures for industrial equipment.
- Improves acoustic comfort and privacy.

Fire Safety:

- Made from stone/slag and naturally non-combustible.
- Does not produce toxic fumes or melt on exposure to fire.
- Acts as a fire barrier, preventing the spread of flames and providing valuable time for evacuation.
- Reduces environmental damage caused by fires.



Environmental Friendly:

- Contributes to lowering greenhouse gas emissions.
- Recyclable material.
- Supports sustainability and eco-friendly practices.

LIGHTLY RESIN BONDED MATTRESS (LRB MATTRESS)

Description

Polybond™ Lightly Resin Bonded Mattress are characterized by the uniform distribution of fibers, fine diameter & flexibility. These mattress are carefully controlled to achieve predetermined density & thickness. Mattress can be faced on one side or both side metal facing G.I. or S.S. Wire Mesh.

“Polybond” Lightly Resin Bonded Mattress confirming to IS 8183, ASTM C 592.

Thermal Services - Upto 750 Deg. C

Fire Safety - Non Combustible, **IS** - 3144: 1992

Acoustical Properties - Suitable for Acoustic Insulation



Advantages:

- Excellent stability & prevention of heat losses due to uniform thickness & density.
- Versatile & flexible multipurpose insulating media.
- Wide range of service temperatures.
- Long service life & free from CFC & HCFC's and other blowing gases.
- Easy to handle and install.
- Excellent thermal, acoustic and fire properties.



Application:

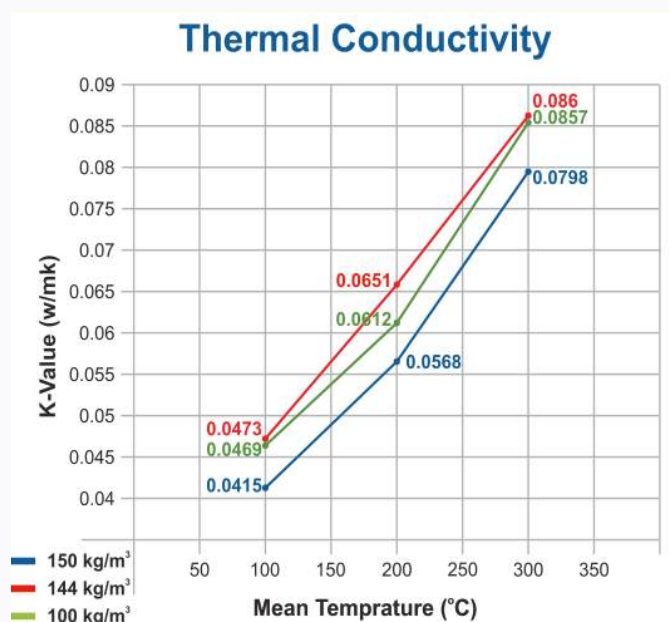
Recommended for thermal insulation in large tanks & vessels, large pipe line works, boilers, turbines & ESP, heavy machinery equipment's, ducts, flanges, valves & plates operating at high temperature & many mores.



Standard Availability:

- Mattress Size: 1.220 m x 1.640 m
- Roll Sizes: 0.8 m x 5 m, 1.220 m x 3.280 m, 1.220 m x 4.92 m
- Density: 80 kg/m³ to 160 kg/m³
- Thickness: 25 mm to 100 mm
- Metal Facing: G.I. or S.S. Wire Mesh
- Packaging: HDPE Bag & LD Plastic
- Water Repellent Products available upon customer request.

Specifications:



RESIN BONDED SLAB(RB SLAB)

Description

“Polybond” Resin Bonded Slabs are known for their uniform fiber distribution, lay pattern, & bulk density which contribute to excellent load bearing characteristics. These slabs offer a versatile material solution for thermal insulation fire protection & sound absorption. RB Slabs can be faced on one side or both side Aluminium FSK, Black Glass Tissue Paper, White Glass Tissue Paper, Alu Glass Tissue Paper.

“Polybond” Resin Bonded Slabs confirming to IS 8183, ASTM C 612.

Thermal Services - Upto 750 Deg. C

Fire Safety - Non Combustible, **IS** - 3144: 1992

Acoustical Properties - Suitable for Acoustic Insulation



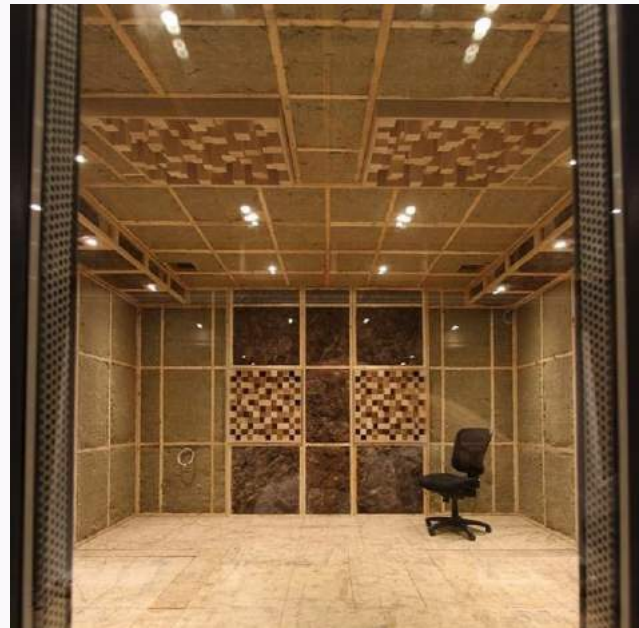
Advantages

- Provides a combination of thermal insulation, fire protection & sound absorption properties.
- Versatile material that is easy to transport, cut, fit & handle.
- Suitable for thermal & acoustic insulation for flat surfaces or slightly curved surfaces.
- Wide range of service temperatures & can be used for cold insulation down to -50° C.
- Excellent stability & prevention of heat losses due to uniform thickness & density.
- Long service life & free from CFC & HCFC's and other blowing gases.



Application:

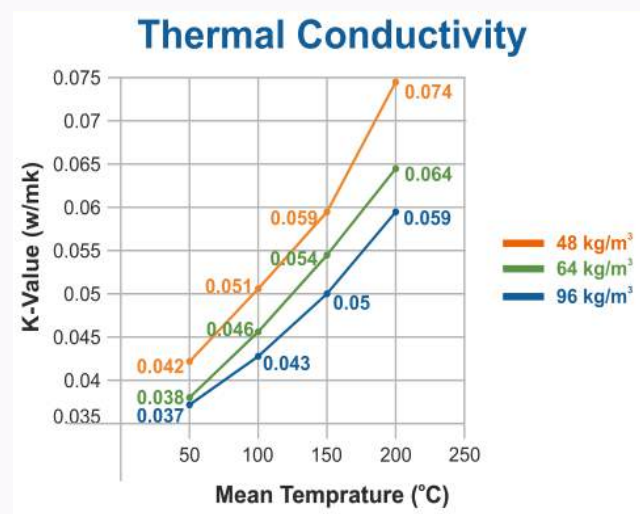
Thermal, Acoustic insulation & Fire safety of cavity walls, ceilings walls, wall partition, sandwich panels, genset, under-deck insulation for residential & commercial buildings, complexes, airports, metro railway stations, auditoriums, recording studios, porta cabins, chimney, ovens, industrial furnaces, vessels & tanks. In bridges & tunnels to act as a noise barrier. Fireproof door insulation.



Standard Availability:

- Slab Size: 1 m x 0.5 m, 1.2 m x 0.6 m
- Density: 48 kg/m³ to 200 kg/m³
- Thickness: 25 mm to 100 mm
- Facing Options: Aluminium FSK, Black Glass Tissue Paper, White Glass Tissue Paper, Alum Glass Tissue Paper.
- Packaging: HDPE Bag & LD Plastic
- Water Repellent Products are available upon customer request.

Specifications:



BUILDING ROLL

Description

“Polybond” Building Rolls are low density insulation material made of non-combustible mineral wool fibers bonded with thermosetting resin binders. These rolls are machine - made and factory laminated with reinforced aluminium foil and other materials on one side.

“Polybond” Building Roll confirming to IS 8183.

Thermal Services - Upto 550 Deg. C

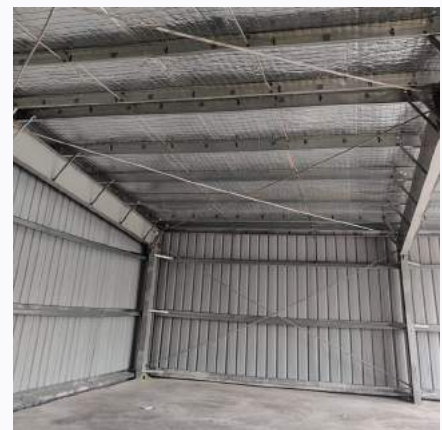
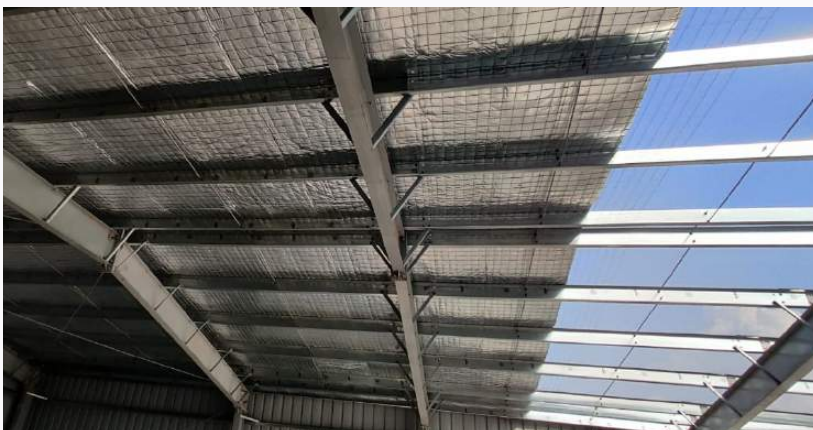
Fire Safety - Non Combustible, **IS** - 3144: 1992

Acoustical Properties - Suitable for Acoustic Insulation



Advantages

- Provides a combination of thermal insulation, fire protection & sound absorption properties.
- Baked by Aluminium FSK, acting as a vapor barrier & preserving the integrity of mineral wool.
- Low density material for efficient insulation for flat or slightly curved surfaces.
- Versatile material that is easy to transport, cut, fit & handle.
- Excellent stability & prevention of heat losses due to uniform thickness & density.
- Long service life free from CFC & HCFC's and other blowing gases.



Application:

Ideal for roof, wall & floor insulation. Commonly used in Pre Engineering Buildings (PEB), Light Gauge Steel Frame Structure Buildings (LGSF), Poultry Farms, AC Ducting, Pre- Fabricated House, Pre- Fabricated Godowns etc. to ensure energy efficiency, temperature control & offering thermal, acoustics insulation & fire safety benefits.



Standard Availability:

- Available with and without Aluminium Foil
- Roll Size - 1.1 m X 7.0 m to 10 m (With Aluminium Foil)
- Roll Size - 1.1 m X 5 m (Without Aluminium Foil)
- Density - 48 kg/m³ to 96 kg/m³
- Thickness - 25 mm to 100 mm
- Facing Options - Aluminium FSK,
- Packaging - LD Plastic
- Water Repellent - Production Available upon customer request.

Newly Added:



Without "FSK"

"Polybond" Building Roll without Aluminium FSK facing. To save the cost of the project with same properties.

SECTIONAL PIPE INSULATION (SPI)

Description

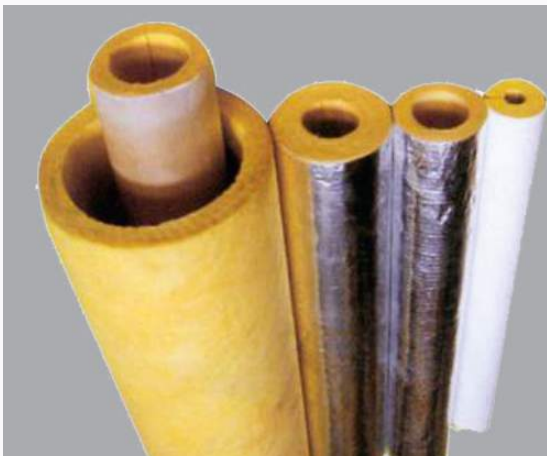
“Polybond” Pre-formed sectional pipe insulation is a specialized product made of chemically coated mineral fibers in specific size. These pre-fabricated pipe sections are design to provide thermal, acoustic & fire protection for pipe lines.

“Polybond” Sectional Pipe Insulation (SPI) confirming to IS 9842:94, ASTM C 547.

Thermal Services - Upto 750 Deg. C

Fire Safety - Non Combustible, **IS** - 3144: 1992

Acoustical Properties - Suitable for Acoustic Insulation



Advantages

- Provides a combination of thermal insulation, fire protection & sound absorption properties.
- Versatile material that is easy to transport, cut, fit & handle.
- Excellent stability & prevention of heat losses due to uniform thickness & density.
- Wide range of service temperatures.
- Long service life & free from CFC & HCFC's and other blowing gases.
- Each section is split & hinged for easy Snap-on application, saving time & effort.



Application:

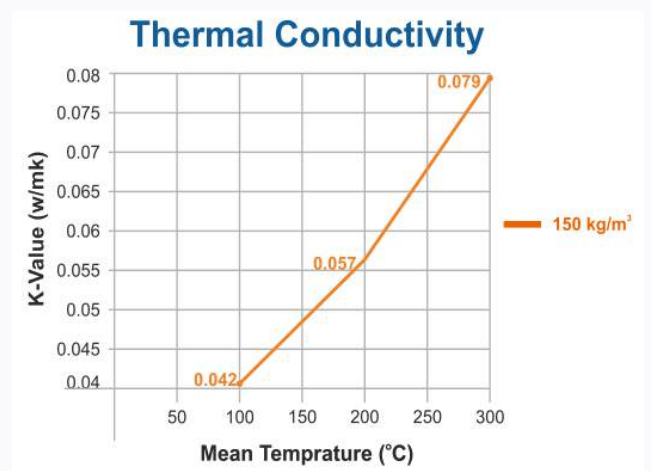
Sectional Pipe Insulation (SPI) are highly recommended for various industrial applications, particularly in steam in process lines found in oil refineries, chemical plants, & power projects.



Standard Availability:

- Size of Pipe: 1.0 m Length (1 RMT)
- Density: 128 kg/m³ to 160 kg/m³
- Thickness: 25 mm to 110 mm
- Diameter: ½" to 16"
- Facing: Aluminum FSK (Foil-Scrim-Kraft)
- Packing: CB Box, LD Plastic
- Water Repellent - Production Available upon customer request.

Specifications:



LOOSE MINERAL WOOL / GRANULATED WOOL

Description

“Polybond” Superfine Loose Mineral Wool is a high quality insulation material made from fine fiber extracted from selected basalt stone/slag. It offers favorable handling & application characteristics, making it an ideal choice for various insulation applications. The Loose Mineral Wool is fire proof, dirt proof & moisture resistant, it is chemical inert, non-corrosive, durable, odorless & easy to handle and store.

“Polybond” Superfine Loose Mineral Wool confirming to IS 3766:86.

Thermal Services - Upto 750 Deg. C

Fire Safety - Non Combustible, **IS** - 3144: 1992

Acoustical Properties - Suitable for Acoustic Insulation



Advantages

- Provides a combination of thermal insulation, fire protection & sound absorption properties.
- Wide range of service temperatures.
- Long service life & free from CFC & HCFC's and other blowing gases.
- Versatile application suitable for a wide temperature range (-50°C to 750°C).
- Sustainable agriculture repurposed for urban agriculture with excellent water holding properties.



Application:

Superfine Loose Mineral Wool is widely employed for thermal insulation in various industrial & commercial settings including furnaces, ovens, automotive, refrigerated storage & machinery and many mores. It is particularly suitable for areas where preformed insulation materials are challenging to apply.



Standard Availability:

- Net Weight: 40 kg per bag
- Packing: HDPE bag



LAMELLA

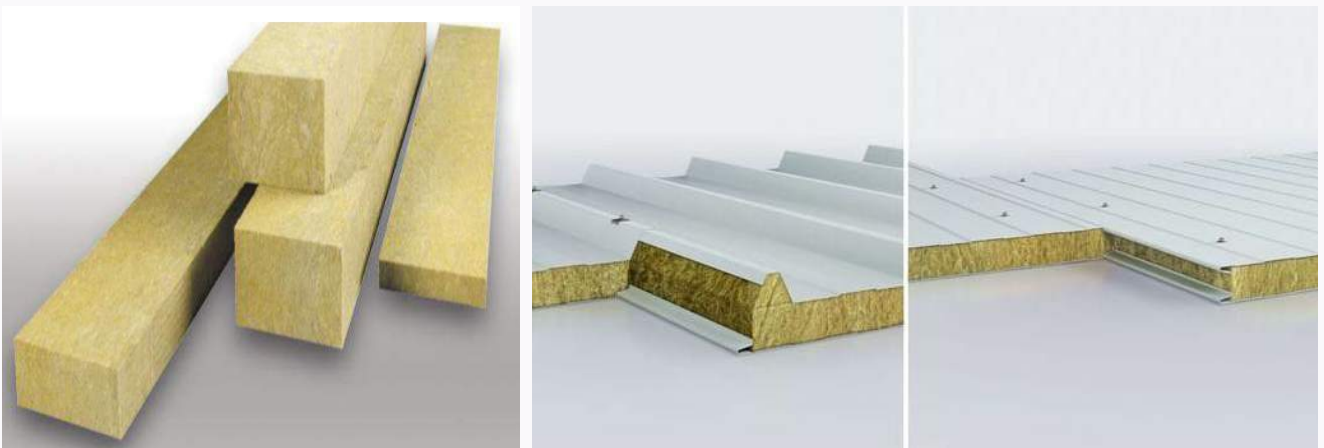
Description

“Polybond” Lamella is a specialized insulation product composed of strips of mineral wool bonded on edge to a flexible outer facing. It is design to provide thermal & acoustic insulation & fire protection for various applications particularly for heating & ventilation pipe works, duct works & as an overlay to enhance existing insulation the unique construction of lamella offers excellent performance & versatility.

Thermal Services - Upto 750 Deg. C

Fire Safety - Non Combustible, **IS** - 3144: 1992

Acoustical Properties - Suitable for Acoustic Insulation



Advantages

- Provides a combination of thermal insulation, fire protection & sound absorption properties.
- Versatile material that is easy to transport, cut, fit & handle.
- Can be used for cold insulation down to -50°C .
- Excellent stability & prevention of heat losses due to uniform thickness & density.
- Wide range of service temperatures.
- Long service life & free from CFC & HCFC's and other blowing gases.



Application:

Lamella Mat is commonly used in various settings that require thermal and acoustic insulation with high compressive strength. It is frequently utilized in heating and ventilation systems, ductwork, sandwich panels, floors and roofs.



Standard Availability:

- Density: 80 to 200 kg/m³
- Thickness: 25 to 100 mm
- Facing: Plain or Aluminum FSK (Foil-Scrim-Kraft)
- Packing: Corrugated Box
- Minimum compressive strength at 10%: 105 to 142 kPa
- Water Repellent - Production Available upon customer request.



Apart from conventional use of Mineral Wool products, the scrap material can be used for sustainable urban agriculture. It can be very well used for making nursery beds, plantations, irrigation and much more. The fibrous structure of the mineral wool provides excellent water holding property for longer duration. And thus provides double benefit to the economy as well as environment.

WE ARE A MEMBER OF:

Polybond Insulation Private Limited Registered Member of :



**Confederation of
Indian Industry**



**Indian Green
Building Council**



ISHRAE



INDIAN BUILDINGS CONGRESS



GRIHA



IIM
**Metallurgy
Materials Engineering**



GreenPro Certified



ACCREDITED
Management Systems
Certification Body
MSCB-119

ISO 9001:2015 CERTIFIED

OUR CLIENTS:

We have delivered products. But, all along the way, we have always tried to deliver satisfaction :



CONTACT US

We sincerely thank you for considering our company and trusting us to meet your insulation needs with our high-quality products and exceptional services.

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