

Freezing Insulation Solutions

INPUF[®]

RIGID POLYURETHANE FOAM

DESIGN COMFORT INSULATION

RIGID POLYURETHANE FOAM SLAB AND PIPE INSULATION

- Rigid Polyurethane foam is used as Building Thermal Insulation in under-deck & over-deck insulation, wall insulation, roof insulation, floor insulation, false ceiling, pipe insulation, etc.
- It is environment friendly (CFC and HCFC Free, Zero ODP, Low GWP) closed cell rigid foam insulation. Its cellular structure has over 90% closed cells.



Facings

Rigid polyurethane foam thermal insulation products are used unfaced / faced with flexible FSK, Aluminium Foil, Kraft Paper, Bituminous Kraft Paper, Fibre Glass Tissue, Reinforced Aluminium Paper etc.

STANDARD DIMENSIONS

Product	Width / ID	Thickness	Length
Slabs	0.5 m to 1 m	15 mm to 300 mm	1 m
Pipes	0.5" to 50" *	25 mm to 100 mm	1 m

* Above 8" diameter pipe insulation available in 4-6 segments & higher thickness pipes available in multi-layers.

TECHNICAL DATA

Chemical Composition	Rigid polyurethane foam (Thermosetting Polymer composed of closed cell structure with urethane links) based on Methylene Di-Phenyl Di-Isocyanate (MDI), Polyol and low thermal conductivity blowing agent chemical systems.
Service Temperature Range	-40°C to 110°C
Overall Foam Density	36 Kg/m ³ ±10%
Initial Thermal Conductivity (K-Value)	0.023 W/m ² K (Max) at 10 deg. Mean Temp.
Compressive Strength At 10% Deformation	115 KN/m ² (Min)
Water Vapour Transmission (Permeability)	5.5 ng/pa.s.m (Max)
Closed Cell Content	90% (Min)
Horizontal Burning	125 mm (Max)
Dimensional Stability	2% at 100°C (Max.)

Finished Product Confirms To IS:12436, PUR-1 Grade Specification.

ENVIRONMENTAL AND BIOLOGICAL COMPLIANCE

Environmental & Green Building Compliance	CFC & HCFC free, Zero ODP, Low GWP, Asbestos & odour free, Corrosion and chemical resistant
Biological Compliance	Fungi & Bacteria resistant

APPLICATIONS

- Pipe & Tank Insulation
- Under Deck & Over Deck Insulation
- Roof & Floor Insulation
- Wall & Ceiling Insulation
- Residential & Commercial Insulation
- Cold Storages & Cold Rooms
- Refrigerated Truck & Transportation
- Automobiles
- Industries
- Food Processing Units
- Shopping Malls
- Auditoriums
- Theatres
- Sport Clubs

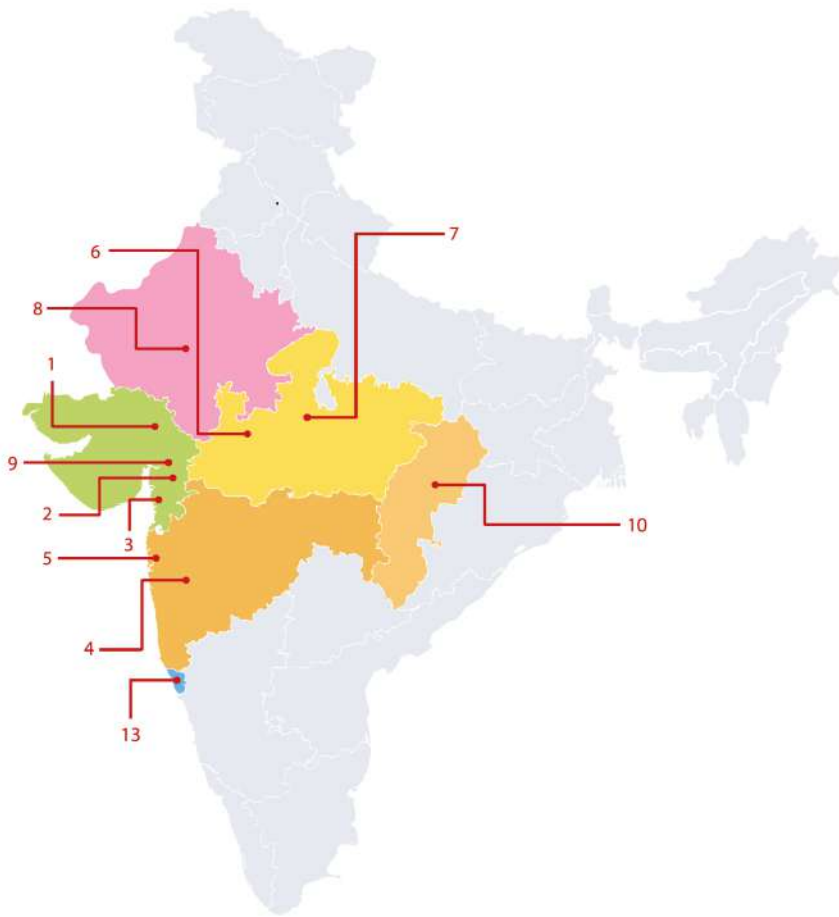
THERMAL RESISTANCE (R-VALUE)

Thickness (mm)	R-Value (m ² .K/W)	R-Value (hr*ft ² *°F/Btu)
25	1.08	6.17
30	1.3	7.40
35	1.52	8.64
40	1.73	9.87
45	1.95	11.10
50	2.17	12.34
75	3.26	18.50
100	4.34	24.64



FEATURES

- Light Weight
- High Compressive And Flexural Strength
- Imperishable
- Green Building Requirement Compliance
- CFC And HCFC Free
- Lower U-value
- Higher R-value
- Lower K-value
- Zero ODP
- Low GWP
- Low Water Vapour Transmission
- No Fungus Growth
- Uniform Density
- Closed Cell Structure
- Excellent Thermal And Dimensional Stability
- No Corrosion
- Space Saving
- Low Handling Cost
- Low Installation Time Required
- Lower Thermal Conductivity Of PUF Insulation
- High Energy Cost Savings



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