

Manufacturer of Polyurethane Foam for
Insulation Industries with
The Best **Quality** & Best **Services**



Thermal
INSULATION
Building, Industrial,
Equipment & Appliances
INSULATION

Skytech Enterprises
PRODUCT

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PRODUCT

Rigid polyurethane foam is the most efficient insulating material, formed by two chemicals component reaction. The material expands in a matter of second and within few moments later becomes a CLOSED CELL RIGID INSULATING MATERIAL. The superior insulating ability of PU FOAM is due to the presence of an inert gas trapped in micro of tiny cells. These cells inhibit heat transfer.

Typical and Mechanical properties or Rigid PU Foam

Characteristics of PU FOAM

HIGH MECHANICAL STRENGTH

1. Light in weight yet rigid & sturdy.
2. Structurally strong & dimensionally stable.
3. High compressive and flexural strength.

ECONOMICAL

1. Lowest 'K' Value Among Insulating Material.
2. High moisture resistance.
3. Permanent and long-lasting insulating.
4. Saving of electricity

EASY TO APPLY

1. Easy to handle and quick to install.
2. Can be easily cut by saw or sharp knife.
3. Excellent adhesive properties-can be laminated to most rigid or flexible materials.
4. Does not soak, swell or buckle in moisture.

LONGER LIFE

1. High ageing resistance.
2. Does not attract rodents and other pests.
3. Odourless and does not absorb odours.
4. Unaffected by sea-water.
5. does not harbour fungi, mildew or spored.

Property	Unit	Result
Standard Density (Other densities available on request)	Kg/M ³	36+/- 2
Compressive strength	Kg/M ²	1.2-2.1
Flexural strength	Kg/M ²	4.0
Closed cell content	%	95
Thermal Conductivity	W/m/m ² °C	0.015
Dimensional stability	K Ca (mh ⁰ C)	0.4
Water vapour permeability	Ng/M ²	2.9
Water absorption (7 days)	Kg/M ³	0.1
Fire resistance	-	Self extinguishing
Service temperature range	°C	-180 to +110
PIR Grade	°C	-200 to +140
Available sizes Pipe sizes Slab Thickness		½" to 14" 1 mtr x 0.50 mtr 25 mm to 100 mm
Facing		Craft paper, Bituminous Craft paper, Aluminized foil, Fibre glass tissue paper, Reinforced aluminized paper (Other finishes also available on request)

PUF SLAB (SHEET)

PU FOAM is available in bare-core slabs of various thickness or panels having self skin or in wide range of facing materials like-aluminium foil, craft paper, fiberglass, Tissue paper, reinforced aluminized paper with different densities.





PUF PIPE ELBOW (BEND)

PU FOAM pipe section made in required donald or pipe size from 15 Nb to 500 Nb, PU FOAM Craft Paper laminated pipe section onlinlo the hood for the involution of a aoporato vapour barrier

PUF PIPE SUPPORT

PU FOAM pipe support are made in 100 kg/m³ density to 300 kg/m³ density for the pipe size from 15 NB to 500 NB substitute for conventional wooden supports available in a range of densities to suit the pipe OD and the insulation thickness resulting in Neat finish , pipe supports of any size and shape can be made available to suit any requirement.



PUF IN SITU APPLICATION

PU FOAM Insulation can be formed directly in to cavities. In-Situ forming can be undertaking for large Industrial tanks and vessels, insulated containers etc. And for buoyancy applications

PUF FLANGE SECTION

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Royal Puff Product

Ambient Temp	35°C
Relative Humidity	80%
Dewpoint Emissivity	31.2°C
Surface Emissivity	0.4 (Aluminized Metal Cladding)
Wind Speed	1.0m/sec
Max Heat Gain	25 W/m ² External Surface of Insulation
Prevention of consideration on external surface of insulation	

N.B. INCH	O/D (mm)	OPERATING TEMPERATURE (Deg. C)										
		15	0	-20	-40	-60	-80	-100	-120	-140	-160	-180
1/4"	15	20	25	25	40	40	50	55	65	70	75	75
1/2"	21	20	25	25	40	45	55	60	70	75	80	80
3/4"	27	20	25	25	40	45	55	60	70	75	80	85
1"	34	20	25	25	45	50	60	65	75	80	85	90
1.1/4"	42	20	25	25	45	50	60	70	80	85	90	95
1.1/2"	48	20	25	25	45	50	60	70	80	85	95	100
2"	60	20	25	25	45	55	65	75	85	90	100	105
2.1/2"	76	20	25	25	50	55	65	75	85	95	105	110
3"	89	20	25	25	50	60	70	80	90	100	110	110
4"	114	20	25	25	50	60	75	85	95	105	115	120
5"	140	20	25	25	55	65	75	85	100	110	120	125
6"	168	20	30	30	55	70	80	90	105	115	125	130
8"	219	20	30	30	60	70	85	95	110	102	130	135
10"	273	20	30	30	60	70	85	95	110	125	135	140
12"	324	20	30	30	60	70	85	100	115	125	140	145
14"	357	20	30	30	60	70	85	100	115	130	140	145
16"	406	20	30	30	65	75	90	105	120	130	145	150
20"	508	20	30	30	65	75	90	105	120	135	145	155
24"	610	20	30	30	65	75	95	110	125	140	155	165
Vessels		25	40	40	70	80	105	125	145	165	180	200

Customer Satisfaction is our Profit

Skytech Enterprises
PRODUCT

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