

Bakelite Hylam Limited is a pioneer in production of Phenolic Foam(Phenotherm®) with modern production facilities including a continuous production line from Europe at Hyderabad, Telangana operating since 1985. Production range includes PU/PIR, Specialized Foams, Phenolic Resins and Insulating Varnishes.

Manufactured as per BS 3927 / IS 13204 Phenotherm® is a non-flammable rigid insulation foam that is practically untouched by fire. In fact, unlike conventional insulation materials, when Phenotherm® is subjected to fire, it only turns dark brown and retains its shape. Neither does it emit toxic fumes, nor smoke.

## Key features

- Non-flammable rigid insulation foam
- Highest safety against fire (Class 'O')
- Lowest 'K' value
- Wide temperature range -196°C to +130°C
- Emits no toxic smoke
- Very low water absorption
- CFC and HCFC free
- Most cost effective insulation
- Odourless and rodent/insect proof
- Easy to install and can be cut/shaped
- Extremely high critical oxygen index

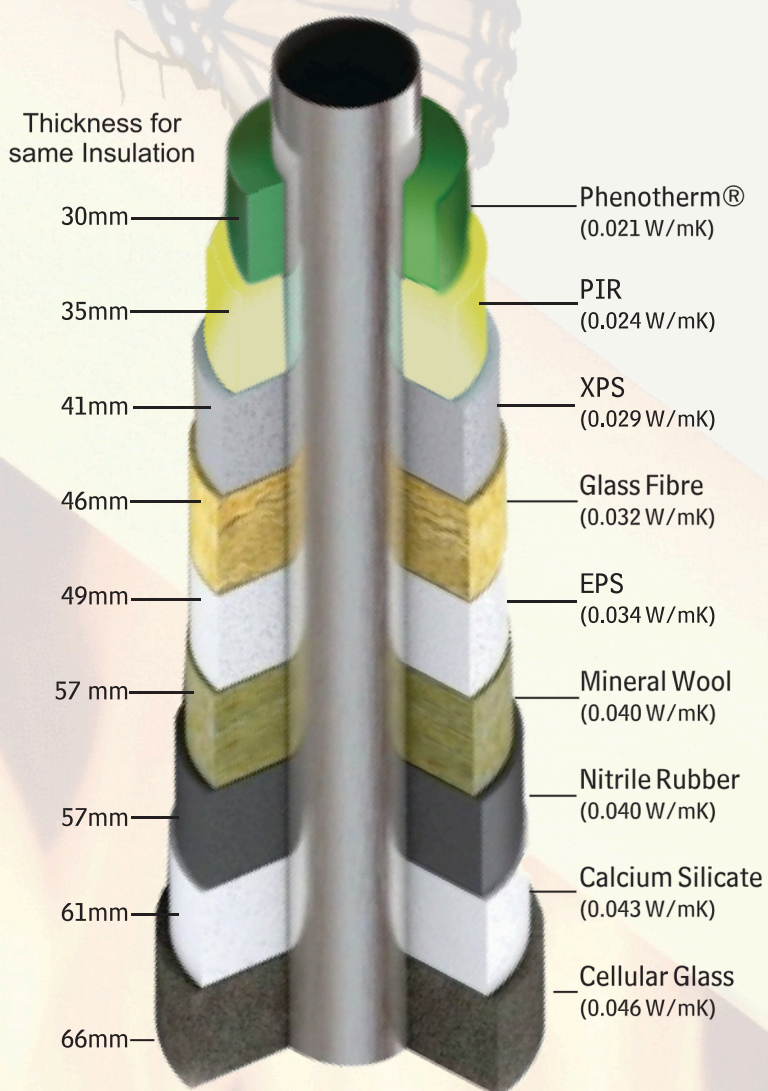
## Suitable for

- Under deck insulation
- False ceilings
- A.C duct insulation
- Vessels insulation
- Tanks insulation
- High altitude shelters
- Pipe insulation
- Cold rooms/Cabins

## Users

- ISRO
- Defence (Navy & Army)
- Oil refineries
- Hospitals
- Pharmaceutical plants
- Airports
- Commercial complexes
- Residential buildings
- Chemical/fertilizer plants

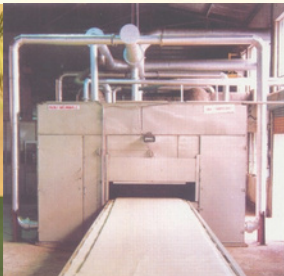
## Comparative Insulation efficiency by Thickness Thinnest = Most efficient



Pipe section

Laminator

Exterior view of Phenotherm® factory





## Phenotherm® Features:

Density	>35Kg/M <sup>3</sup>
Thermal Properties	
(i) Thermal Conductivity at 10°C Mean W/mK (BS 4370: Part 2)	0.021
(ii) Service Temp. Max	+130°C
Short term	+250°C
Min	-196°C
Mechanical Properties (BS 4370 Part 2)	
Compressive Strength (KN/M <sup>2</sup> )	170
Shear Strength (KN/M <sup>2</sup> )	100
Tensile Strength (KN/M <sup>2</sup> )	>150
Moisture Properties	
(i) Water Absorption % by Volume	3%
(ii) Water Vapour Transmission (BS 4370 Part2) perm-inches	2
Fire Performance	
(i) Surface Spread of Flame (BS 476 Part 7, 1971)	Class 1
(ii) Fire Propagation Index (BS 476 Part 6, 1976)	Class 'O'
(iii) Ignitability (BS 476 Part 5, 1979)	Class 'P'
(iv) Critical Oxygen Index (BS 476 Part 5, 1979)	>50
(v) Obscuration	<5%

## Available as:

- Slabs
- Buns/Blocks
- Sandwich Panels
- Pipe Sections
- Special Sections
- Pre-insulated Ducts

## Slabs:

Phenotherm® slabs are available in the following Range

Density: Minimum 35 Kg/M<sup>3</sup>

Facings: Kraft Paper, Aluminum Foil, Aluminum Scrim Foil, Embossed Aluminum Foil, Decorative Laminate, Ceramic, Glass Fabric, PCGI Sheet.

Thickness(mm): 20-150mm

Size: Width upto 1.2M, Length any size.  
1MX0.5M, 4'x4', 2'X2', etc.,

## Pipe Sections:

Phenotherm® pipe sections are available in the following Range

Density: Minimum 40 Kg/M<sup>3</sup>

Facings: Bare, Aluminum Foil, Glass Cloth and more

Nominal Bore: upto 16"; Larger sizes on request.

Thickness(mm): 25,30,40,50,60,75,100

Also Available : PIR & PU Slabs and Pipe Sections.

## Areas of Application:



GSTIN : 24AAV2909E1ZY



**Vansh Enterprise**

All Types of Insulation & Accessories



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