



SUPERTHERM PIPE SUPPORTS

A heavy duty easy to install prefabricated pipe support system, complete with all fittings. Supertherm pipe Supports are made from specially formulated chemical system that result in high density rigid polyurethane foam. The very nature of the material immediately yields several advantages :-



ADVANTAGES

Higher densities enable higher loads without Increase in surface area.

No sawing and shaping at site. The support precisely matches pipe's OD.

Does not permit water penetration. No wet & Dry rot.

Provides vastly superior insulation as compared to timber and other materials. No condensation at support point. So no drips, puddles or energy Wasted.

Improved safety and durability at site.

Pipe Support thickness precisely matches insulation thickness, resulting in neat finish at support location.

Improved speed of installation Joint-free in the load bearing area, even for larger diameters of pipe.

on request Non-standard sizes and shapes can be

manufactured to suit specification. Supports can be supplied with a factory-applied coat of fire-resistive Mastic, which also serves as a vapour barrier, on the exposed surface.





Physical Properties For Different Densities

Density (Kg/m³)	% Closed Cells	Water Vapour Transmission (gms/m2 24 hrs)	Compression Strength (KPa)	Tensile Strength (KPa)
1200				
120	94	45	1500	1600
180	94	30	2900	2500
250	96	25	4900	3100
320	96	15	8200	5000

PROPERTY

Wide density range possible

Pre-engineered at our factory

Material has a closed cell structure

Installation time

Excellent 'K' Value

Good fire resistance

Close dimensional tolerances

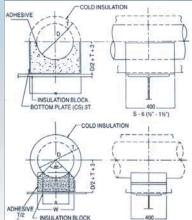
Supplied in assembled condition,

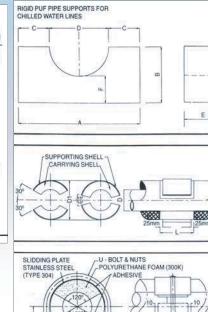
Complete with all metal attachment Special sizes, shapes and finishes

CFC FREE, higher densities are available Support length max. 150, 300, 450, 500,600, 700.

Comparison With Wood

Material (Kg/m³) Wood	Density 10 Deg C	'K' Value at Temp. deg C	Max T emp.	Min. deg C	Fire Rating
Oak Mahogany	740 560	0.159 0.144	65 65	0	Poor Poor
Supertherm	120 160	0.023 0.031 0.033	110 110 110	-185 -185 -185	class 'P' as per BS 476 part-5





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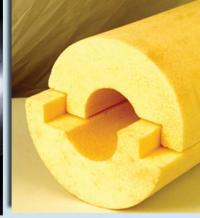
ISOLOYD NILFLAME

SUPERFOAM

SUPERTHERM

COLD & CRYOGENIC INSULATION SYSTEM











LLOYD INSULATIONS (INDIA) LIMITED

The Total Solution Company ISO:9001, ISO:14001, OHSAS:18001 Certified











Rigid Polyisocyanurate foam insulation, a specialist low temperature and cryogenic insulation

Isoloyd Nilflame

Rigid Polyisocyanurate foam insulation, a specialist low temperature and cryogenic insulation which as low thermal conductivity, closed cell, moisture resistance and enhanced compressive strength at low temperature, whilst not compromising its elasticity so as to avoid cracking.

CFC, Free

Isoloyd Nilflame is the only 'CFC HCFC FREE' Polyisocyanurate Insulation product, designed within the guideline of the Montreal Protocol, 1987, for the protection of the Ozone layer. It is also available as ZERO ODP foam.

Better Extremetemperature Performance

Unlike most thermoplastics, Isoloyd Nilflame has low smoke & toxic gas emission, and will not melt or drip in fire. It has low flame spread and is not easily ignitable. It also has a higher hot surface

performance Temperature of 150° C. this makes it ideal for use directly over steam or electrical tracing.

Its fire classification meets even the stringent requirements of the British Board of Trade for shipboard insulation as per BS 5608, the Indian Navy; and those of the US Bureau of Mines.

Insulation Performance

available and retains its thermal efficiency under the most severe cell structure and resistance to moisture absorption. With Isoloyd Nilflame insulation thickness can be reduced as compared to other materials like polystyrene foam, cellular glass and fibreglass. Lower thickness exposes lower surface area for expensive vapour barrier and outer cladding.

Ease Of Application

Resistant to almost all solvents, Isolovd Nilflame is compatible with cold applied adhesives, sealants and Vapour-barrier mastics. Isoloyd Nilflame is available in boards, pipe sections, radiused and bevelled lags, with or without factory-laminated

LNG plants & buildings interiors. The most suitable insulant for LNG pipeline insulation.

Superfoam

Easy-Fit Polyurethane Foam for low temperature applications & chilled water pipeline insulation.

Superfoam Mouldable Insulation

Like other urethane foam insulants, Superfoam has low thermal

conductivity, low smoke emission and low Isoloyd Nilflame is amongst the most water vapour permeability. Superfoam can thermally efficient insulation materials be factory moulded to any shape and for most applications, the need for a facing material is completely eliminated as the operating conditions due to its closed product comes out of the factory with a self skin formation.

CFC Free

Superfoam is CFC, HCFC free Polyurethane Foam insulation product as per Montreal protocol 1987. Superfoam is now available as ZERO ODP foam.

An Insulant For All Seasons

Resistant to all solvents, Superfoam is compatible with cold adhesives, sealants and vapour barrier mastics. Superfoam is available in boards, pipesections radiused bevelled lags, with or without factory laminations.

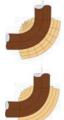
Dramatically Reduces Installation Time

Since Isoloyd Nilflame and Superfoam insulants are mouldable to any shape, they The most suitable insulation for SHIPS, can be prefabricated in various forms that fits your application precisely. Apart from our by now-famous slabs and pipesections we offer them in 5 other standard application forms.

Foam-plus-mineral Wool 'Sandwich' Pipesection:

The most elegant solution for heat traced lines in systems operating at dual temperatures. It is a combination of first layer Rockwool Mattress followed by Superfoam / Isoloyd Nilflame preformed insulation or applied Cast-in-Situ.







Horton Sphere Petals

A double layer overlapping system of curved 1m x 1m tiles that precisely fit a Horton sphere, enabling complete reinsulation during normal maintenance eshudowns.

New Generation Shiplap Pipesection

The pipesections are also available as SHIPLAP edge finish, making it most ideal for extreme low temperature lines. The shiplap edge provides firm barrier to the passage of moisture / vapour from outside to the cold pipeline surface. With aluminium foil lamination the pipesections fixed with adhesive and the extended foil on one side stuck with aluminium tape provides a very fast application and acts as prefabricated vapour barrier cum final finish pipeline insulation material.

Pipe-in-pipe Prefab Insulation

A novel site fabricated one-piece insulated

Pipe comprising of a main pipe, superfoam or Nilflame injected insulation and HDPE pipe cladding on top. Spacer blocks of insulation equivalent to insulation thickness is fixed over pipe surface & held in position with bands and HDPE sheet applied over it and hot air welded. Thereafter polyurethane / polyisocyanurate foam chemicals are injected by drilling holes. The foam spreads & dries up fast forming an uniform cover over the pipe and strongly stuck over the pipe as well as to the HDPE sheet.

Preinsulated Pipes

Preinsulated pipelines are manufactured with State-of-the-art In-Situ-Applied Polyurethane Foam insulation over the pipelines and with spirally wound sheet metal cladding. It is available in various dias & thickness and suitable from -30 to 90 deg.C.

Energy Efficiency

Isoloyd Nilflame and superfoam by virtue of low thermal conductivity offers one of the

most thermally efficient low temperature insulation solutions available, providing enegy saving benefits and lower long term system running costs.

Standard Conformance

Isoloyd Nilflame confirms to IS 12436, BS5608, & ASTMC591 Superfoam confirms to IS 12436, BS5608 Cast-in-Situ application IS: 13205 Thickness of Insulation Calculation: ASTM C-680

Technical Services

Complete application specifications available for all categories of low temperature applications including cryogenics (upto -200°C) including complete details on adhesives, vapour barrier, mastics, contraction joints, pipe supports and cladding.

