With Isoloyd Nilflame, RIGID URETHANE FOAM YOU have a choice:



Half the insulation thickness, or twice the efficiency



Isoloyd Nilflame

Isoloyd Nilflame, like other urethane foam insulants, has low thermal conductivity. Unlike the others, though, it also has a high fire-resistance rating. It achieves a Class 1 Surface Spread of Flame rating-the best classification available-when tested to BS 476 (Part 7, 1971).

CFC FREE

Isoloyd Nilflame is the only 'CFC FREE' product, designed within the guidelines of the Montreal Protocol, 1987, for the protection of the Ozone layer.

Better extreme-temperature performance

Unlike most thermoplastics, Isoloyd Nilflame has low smoke emission, and will not melt or drip in a fire.

Being a rigid polyisocyanurate foam, it also has a higher hot surface performance of 150°C. compared with only 110°C of normal Polyurethane Foam. 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.

Better cost-effectiveness

With Isoloyd Nilflame, insulation thickness can be reduced by 50% compared with cork, 44% compared with expanded polystyrene or fibreglass. It exposes lower surface area, reducing area or expensive vapour barrier and outer cladding per running meter of piping.

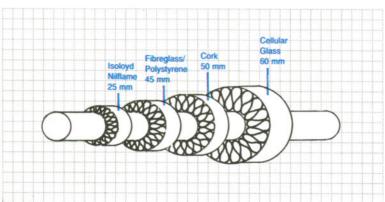
So insulation parameters can be upgraded without increasing pipe rack spacing.

Ease of application

Resistant to almost all solvents, Isoloyd Nilflame is compatible with cold applied adhesives, sealants and vapour-barrier mastics.

Isolovd Nilflame is available in boards, pipe sections, radiused and bevelled lags, with or without factory-laminated facings.







TECHNICAL SPECIFICATIONS FOR ISOLOYD NILFLAME BOARDS & PIPE SECTIONS

- Density
- Compression Strength (in direction of rise)
- 32 ± 2 kg/m³

150°C

Class 1

- 172kN/m2 (1.75 kgf/cm2)
- Thermal conductivity -'k' (initial) at 10°c
- Max. 0.017 W/mK (0.12 BTU-in/hr. sft. °F) Consult our technical assistance group for 'k' values and thickness recommendations at your operating temperatures and ambient conditions.
- **Temperature Limit**
 - Fire Resistance Properties:
 - Surface Spread of -Flame (BS 476 Part 7, 1971)
 - Ignitability (BS 476 -Part 5, 1968)
 - Mean extent of burn-(BS 4735 1971)
 - Penetration of 1200°C flame through 25 mm board (U.S. Bureau of Mines Test)
- Water Vapour transmission (BS 4370 Part 2, 1972)
- Closed Cell Content -
- **Available Sizes**

- Class 'P' (not easily ignitable)
- Less than 25 mm (highest classification)
- 20 Minutes (typical)
- 5.84 x 10⁻³ μg-m/s N
- 90% (min)
- Boards 1m x 0.5m Pipe Section to suit 50 to 250

mm NB x 1 m long. Other sizes available on request. Thickness from 25 to 100 mm



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