



## Supreme introduces INSUflex, a High Vapour Resistant Insulator for Air-Conditioning Applications

Supreme Industries Ltd., founded in 1942, pioneered many path-breaking products in the country & became trendsetters in plastics industry by introducing many advanced solutions for various applications and industries. Supreme's Insulation Division offers solutions in the areas of:

- Ducting & Underdeck insulation
- Pipe & Floor insulation
- Insulation joint sealing tapes
- Sound insulation
- Overdeck insulation
- Wall insulation.

The main goal of a good insulation material should be that of preventing water vapour from spreading through insulation as water is an optimal heat conductor. INSUflex, by Supreme Industries, is a CFC-free, black flexible elastomeric closed-cell Nitrile Rubber thermal insulation that provides a highly efficient method of insulation and effectively controls condensation against both heat loss and heat gain. The material is particularly suitable for insulating pipe works for condensation control. It can be used on chilled water pipe lines, refrigerated pipe-works, hot & cold water services and on sheets or rolls in air-conditioning ductworks.

INSUflex, has a very high diffusion resistance factor to water vapour transmission  $\geq 7000$ , a low thermal conductivity and an excellent fire safe performance. It is suitable for a temperature ranging from  $-55^{\circ}\text{C}$  to  $+105^{\circ}\text{C}$ . The product does not depend on any additional outer thick skin or covering but is in built with the insulation and extends through the full thickness.

INSUflex range is resistant to corrosion, fungal and mildew growth and is therefore suitable for clean room applications. Insulation material with a low 'K' value equates to a high energy saving potential and thermal performance. Thermal conductivity is the main data used to technically calculate insulation thickness required to prevent condensation.



### INSUflex advantage

- Good flexibility at low temperature
- Clean, dust-free, fast and easy installation
- Low thermal conductivity
- High water vapor resistance factor  $\geq 7000$
- Protects pipes against corrosion by environment elements
- Low toxicity index offers minimal toxic fire hazard for safety assurance and rescue operations
- Good fire performance, for buildings with high occupancy, Class 1 product
- Unique closed-cell structure, provides an ideal vapor barrier resistance

INSUflex is available in combinations of various wall thicknesses and diameters to suit G.I., copper and PVC pipes.

The product is applied to the surface using an adhesive compound. A protective layer of glass cloth, in two layers with an adhesive compound is then applied before providing a weather barrier, such as aluminium / G.I. cladding for outdoor application.

### Other INSU Range products

'INSUshield' is a non-fibrous, fire retardant ('Class O' in Fire Propagation and 'Class 1' in Surface Spread of Flame), closed cell, tri dimensional chemically crosslinked polyethylene XLPE foam. An ideal environment friendly insulation material, with a perfect solution for all your insulation needs for ducts, roofs, pipes, vessels, etc. The divergent advantages of 'INSUshield' are ease of installation, low thermal conductivity and good moisture & vapour resistance preventing microbial growth and optimum condensation protection.

'INSUreflector' is a radiant heat reflective insulation material made of polyethylene air bubble film (ABF) laminated with aluminum foil on one or both sides. It is a low e-reflective insulation material with a low mass to air ratio, which effectively blocks the radiant heat transfer. The bright surface of the aluminium foil, which encases the FR polyethylene air bubble material, reflects 96-99% infrared radiation received by the surface of the heated slated roof.

Amongst others, there are 4 primary reasons why Supreme's Thermal Insulation Division is a choice of discerning customers seeking superior insulation solutions.

**Quality:** A methodical, systematic and stringent approach to quality ensures all our products are not only world-class but also durable. We adhere to international quality standards while manufacturing our products. ISO 9001:2000 and ISO 14001 certifications and NABL Accreditation for our various plants is a testimony to our serious approach to quality. ■

