



Insulation advantage

Evolving requirements in the Indian air-conditioning domain demand a wide range of product innovations and technologies. The demand is constantly increasing with widespread usage of air conditioning systems in not just residential and commercial but also in retail, hospitality, educational and even health sectors.

INSUFlex is a fire retardant closed cell flexible elastomeric pre-formed tubing thermal insulation product. The material is CFC and HCFC free with O.D.P. zero. Light and flexible tubing enables easy and fast working through the usage of the product. INSUFlex offers a high water vapour transmission resistance factor which ensures a low stable thermal conductivity, thereby saving energy and ensuring efficiency of the system, in the distinct application areas. The environmental and user friendly ability of the product makes it more beneficial than conventional fibrous products like glass wool.

INSUFlex has a high diffusion resistance factor to water vapour transmission ≥ 7000 , a low thermal conductivity and excellent fire safe performance. It is suitable for temperatures ranging from 55°C to more than 105°C. The product does not depend



on any additional outer thick skin or coverage. But, is built in with the insulation and extends through the full thickness. It provides a very high efficient method of insulating to control 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 and cold water services and sheets/rolls in air-conditioning ductwork.

INSUFlex products are resistant to corrosion and fungal and mildew growth. Thus they are suitable for clean room applications. Insulation material with low 'K' value exhibits high energy saving potential and thermal performance. Thermal conductivity is the main data used to technical calculated insulation thickness required to prevent condensation.

KEY BENEFITS:

The major benefits associated with the usage of INSUFlex are:

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

Besides, INSUFlex is available in combination 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.

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