



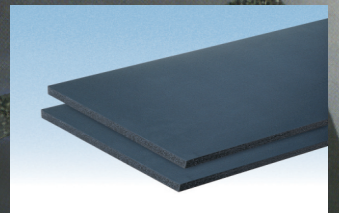
CAREFLEX[®]

INSULATION SYSTEMS

The Careflex[®] - NBR insulation in the cooling & heating sector on the basis of elastomeric foam with closed-cellular structure



CAREFLEX[®] - NBR



*** LETS CARE ENERGY BETTER ***

CAREFLEX® - NBR INSULATION

Applications

$\mu \geq 5,000$
 $\lambda 0^\circ \leq 0.036$
 CFC free

Careflex is ideal for all thermal insulation needs in :-

Airconditioning Projects :- For insulating chilled water pipes, chillers, supply & return air ducts and ancillary equipments. **Hot & Cold Water Plumbing System** - For insulating hot & cold pipes used in commercial, residential buildings & various industries. **Solar Water Heating System** - For Insulating delivery pipes, panel and hot water storage tank etc. **Refrigeration Industries** - For insulating pipe works & ancillary equipments for refrigeration. **Process Works** - For insulating pipes carrying Hot and cold fluids including equipments. **Many Other Areas** - For energy conservation in almost all areas i.e Hotel, Hospitals, Dairy & Food Processing, coldstorages, refineries & coldmountainous regions.

PRODUCT RANGE :

ID OF TUBING	TO SUIT PIPES OF DIFFERENT SIZES	WALL THICKNESS AVAILABLE				
6 - 108 mm	From 6mm OD to 110 mm OD	6mm	9mm	13mm	19mm	25mm

* Sheets as rolls of 1.2 metre width in 6, 10,13,16,19 & 25 mm wall thickness are available in standard length of 30,20,15,12,10 & 8 mtr respectively.

* Pre- cut tube section with self adhesive seal in certain sizes & adhesive sheets are also available.

Accessories: Insulation tape of 3 mm thick is available for joint sealing & covering of fittings or valve etc.

Tolerance in dimension:		Thickness	Length	Diameter
	Tubes	± 1mm to ±2mm (wall 6 - 25 mm)	± 2 %	± 1 mm - ±6 mm (6mm ID to 108 mm ID)
	Sheets	± 1.0 mm	± 2 %	

Advantages of Careflex®-NBR Insulation

- Low thermal conductivity, which makes it highly effective in the insulation of cooling & heating systems.
- Light weight and flexible thus making installation very easy and speedy ultimately saving time & cost.
- The improved μ value in closed cell structure makes an impermeable layer which is in itself a good vapour barrier.
- It is suitable for application within the temperature range of -40°C to $+105^\circ\text{C}$.
- The material has been specially compounded to be self - extinguishing in nature.
- It is Free of CFC, HCFC, Fiber. And it does not cause skin allergy.
- **Less thickness is required in specifying Careflex-NBR insulation in comparison to other materials due to very low thermal conductivity & better resistance to moisture.**
- "Careflex" also retard heat loss in hot water plumbing and solar heating systems. It also protects piping by acting as a vibration damper and giving protection against corrosion from atmospheric environment.
- Wide range of tubes & sheets is available to ideally suitable for insulation of different pipe sizes, air ducts and large surface areas e.g. tanks or irregular shaped vessel.

UV RAYS PROTECTION : It is strongly recommended to protect outdoor insulation from UV rays & weather by using Careflex coating paint or aluminium sheet covering or any equivalent UV resistant finish.

CAREFLEX® - NBR TECHNICAL DATA

TEST ITEM

Density
 Flammability (%)
 Thermal Conductivity
 Water Vapour Permeability (g/(m.s.pa))
 Fire Rating BS 476 P 7
 Water Absorption Ratio (%)
 Crack resistance (N/cm)
 Compression Resilience, Ratio (50%, 72 h) (%)
 Ozone Resistance (200h, Pressure 202 Pa)
 Aging Resistance (150h)
 Colour & Appearance
 Noise Reduction
 Resistance to building materials

SPECIFICATION

50-100 kg/m³
 Oxygen Index (OI) ≥ 22 Smoke Density (SD) ≤ 75
 Mean Temp. -20°C 0°C $+20^\circ\text{C}$ $+40^\circ\text{C}$
 W/(m•K) 0.034 0.036 0.038 0.040
 Permeability Coefficient (PC) $\geq 1.0 \times 10^{-10}$
 Moisture Resistance Factor $\mu \geq 5.0 \times 10^3$
 Class "1"
 ≤ 10
 ≥ 3.0
 ≥ 70
 No Cracking
 Slightly crumpling, no cracks, no pin holes, no deformation
 Black & flat surface free of bubble & crack
 Acoustic level to 35 dB(A)
 Very Good

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To the best of our belief, technical data set out in this publication is accurate. However, it is purely for guideline purpose.

Marketing Associate