

# CAREFLEX®

INSULATION SYSTEMS

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



\* LETS CARE ENERGY BETTER \*

# CAREFLEX®- NBR INSULATION

# **Applications**

u ≥5,000 λ 0°≤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 regrigeration.. 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, refinaries & 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.

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

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

- 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  $\mu$  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°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 specifiying 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.

## TEST ITEM

Density

Flammability (%)

Thermal Conductivity

Water Vapour Permeability (g/(m.s.pa))

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°C

W/(m•K) 0.034 0.036 0.038

Permeability Coefficient (PC) ≥1.0x10<sup>-10</sup>

Moisture Resistance Factor µ ≥ 5.0x103

≤10

 $\geq 3.0$ 

≥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