INSUL-TUBE® & INSUL-SHEET®

Flexible Pipe Insulation for Condensation Control, Frost Protection and Energy Conservation –40°C to +105°C

Ozone Depletion Potential of **ZERO**

we will succeed together

CFC/HCFC FREE
SIN CFC/HCFC
CFC/HCFC FREE

BS EN ISO 9001:2000
Certificate No. Q05944

nmc

INSUL-TUBE® & INSUL-SHEET®

The Flexible Synthetic Rubber Pipe Insulation for Condensation Control, Frost Protection and Energy Conservation

INSUL-TUBE & INSUL SHEET – THE BENEFITS

- Building Regulations Class O
- Ideal Flexibility
- Low Thermal Conductivity
- Closed-cell Structure
- Integral Vapour Barrier
- High Emissivity Surface
- Full range of compatible accessories available

Insul-Tube Product Range:

- Wall Thickness 6mm – 32mm
- Bore Sizes 6mm – 114mm
- Larger pipe sizes available upon request

Insul-Sheet Product Range:

- Wall thickness 6mm – 32mm
- Self Adhesive Insul Sheet is available to order

Building Regulations Part L April 2006 Domestic Heating Compliance Guide

Pipe Diameter (mm)	Maximum Heat loss W/M	nmc UK Ltd wall thickness mm for both heating and hot water
8	7.06	13
10	7.23	13
12	7.35	19
15	7.89	19
22	9.12	25
28	10.07	25
35	11.08	25
42	12.19	32
54	14.12	32

Note. Water temperature at 60°C with ambient still air temperature at 15°C

Building Regulations Part L April 2006 Non-Domestic Heating, Cooling & Ventilation Compliance Guide

Pipe Diameter (mm)	Hot Water 60°C	Low Temp Heating <95°C	Medium Temp Heating 96°C - 120°C
15	25	32	25
22	32	32	38
28	32	34	45
35	34	38	50
42	41	45	57
48	44	50	57
60	45	50	64
76	45	55	64
89	50	55	64
114	50	55	64
114 + above Flat Sheet	50	57	64

Hot water at 60°C in still air at 15°C. Low Temp Heating at 75°C in still air at 15°C. Medium Temp Heating at 100°C in still air at 15°C

Technical data

Temperature Range	–40°C to +105°C
Thermal conductivity	λ = 0.035 W/mK at 0°C (DIN52613) λ = 0.037 W/mK at 20°C (DIN52613) λ = 0.040 W/mK at 40°C (DIN52613)
Fire Performance: Surface Spread of Flame Fire Propagation	 BS 476 Part 7 - 1997 Class 1 BS 476 Part 6 - 1989 $1 < 12\text{-}0$ $1_i < 6\text{-}0$ Building Regulations Class 0
Water Vapour Permeability	BS4370 Part 2 1973 Method 8 0.25ngm/Nm
Water Absorption	0.35% vol after 28 days (DIN 53495)
Sound Reduction	DIN 4109 Up to 32dB(A)
Application Temperature	+5°C to +25°C

Water Regulations 1999 Frost Protection

The Minimum Thicknesses of INSUL-TUBE® required to meet the New Water Regulations are listed below

Pipe Dia. O/D (mm)	Normal Conditions	Extreme Conditions
15	25	32
22	19	25
28	19	25
35	9	13
42	9	13
54	9	9
76	9	9

These recommendations refer to a normally occupied domestic dwelling house. Absences in excess of 24 hours are not considered normal.
The thickness of insulation is considered the minimum to provide worthwhile protection against freezing.

External Installations: nmc (uk) ltd recommend insul-tube® & insul-sheet® is painted with two coats of water based paint for UV protection. Alternatively a cover such as System 2000 or System 2000D must be used.

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