

# insul-tube® & insul-sheet®

Enlarged range of sizes  
compliant with Part L of the  
April 2006 Building Regulations

Flexible Pipe  
Insulation for  
Condensation Control,  
Frost Protection and  
Energy Conservation  
-40°C to +116°C  
Ozone Depletion Potential  
of **ZERO**



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

## The benefits of specifying insul-tube® and insul-sheet®

- Class '0' Fire Rating.
- Ideal Flexibility.
- Low Thermal Conductivity.
- Closed-cell Structure.
- Integral Vapour Barrier.
- High Emissivity Surface.
- Prompt Service.
- Nationwide Distribution.

### insul-tube® Product range

- Wall thickness 6mm - 32mm.
- Bore sizes 6mm - 114mm.

### insul-sheet® Product range

- Wall thickness 6mm - 32mm.
- Self adhesive insul sheet Class 0 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 and ventilation  
Compliance Guide

Pipe Diameter mm	nmc UK Ltd Compliant Wall Thickness		
	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

insul-tube® and insul-sheet® Class 0	
Temperature Range	-40°C to +116°C
Thermal conductivity to DIN 52613 at mean temperature indicated	0.035 W/mK at 0°C 0.037 W/mK at 20°C 0.040 W/mK at 40°C
<b>Fire Performance:</b> Surface Spread of Flame Fire Propagation	BS476 Part 7 - 1997 Class 1 BS476 Part 6 - 1989 1 < 12-0 1j < 6-0 Building Regulations Class 0
Water Vapour Permeability	BS4370 Part 2 1973 Method 8 0.25ngm/Nm
Water Absorption after 28 days	DIN 53495 By volume 0.35%
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® Class 0 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 is not considered normal.

The thickness of insulation is considered the minimum to provide worthwhile protection against freezing.

**"Normal Conditions"** Inside the building and within the envelope of the insulation where heat is normally provided.

**"Extreme Conditions"** Inside the building but outside the envelope of the insulation i.e. above the thermal insulation in a loft space, under a suspended ground floor. Area's without heating services, inside the structure of the building.

**NMC sa** reserves the right to change or modify any of the technical data or size range of its products without prior notice. The technical data contained in this brochure has been obtained under specific test conditions and the correct application of our products is the responsibility of the user.

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

Please ask for details of our insul-tube® & insul-sheet® accessories to assist in the installation of our products.



**nmc (uk) ltd.**

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