

**EUROPAIR** 

COMMITMENT IS THE DIFFERENCE

**INSULFLEX**

technical

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## DESCRIPTION

INSULFLEX is a flexible and light weight elastomeric nitrile rubber material designed for thermal insulation. Insulflex insulation is black in colour, available in tubing and sheet form. The extruded flexible tubings are specially designed to fit the standard diameters of steel and copper pipings. Sheets are available in standard precut sizes or in rolls.

## USES

Insulflex expanded closed cell structure provides the ideal and most efficient vapour barrier for the prevention of condensation or frost formation on cooling systems, chilled water and refrigerant lines. Insulflex also retards heat loss for hot water plumbing and heating, dual temperature piping and solar systems. It protects pipes by acting as a vibration damper and giving protection against corrosion by atmospheric and industrial environment. Insulflex inherent flexibility makes it ideally suited for the insulation of large surface areas such as tanks, irregular shaped vessels, air-ducts and large diameter pipes.



Average Physical Properties	Rating	Test Methods
Density	0.08-0.12 gm/cm <sup>3</sup> (5-8 lb/cuft)	ASTM D 1667
Thermal Conductivity at 20 °C	0.0374 W/mK(0.26BTU in/hr. <sup>2</sup> ft F)	ASTM C 177
Temperature Limits °C	-40 °C to 105 °C	
Water Absorbtion	3	ASTM 1056
Water Vapour Permeability Perm - in Max	0.2	ASTM E 96
Ozone Resistance	Excellent 4.5	ASTM C 548
Thermal Stability 7 days (% shrinkage) 200 °F		
7 days 200 °F		
Spread of Flame	Self Extinguishing	ASTM D 635-91
Average time of burning	Less than a second	
Average extent of burning	15mm	
Flexibility	Excellent	
Weather and Ultraviolet Rays	Good	
Chemical Resistance	Good	
Odour	Negligible	
Mildew Resistance	No Fungal Growth	

The above physical properties are value obtained in accordance with accepted test methods. At -40°C, Insulflex Closed Cell insulation becomes hard and as temperature drops below -40°C will be increasingly brittle however this hardening characteristic does not affect thermal or water vapour permeability. The Fire Rating standard method of tests conduced under controlled laboratory conditions is a measure of a material to spread flames when compared to a known standard and is not intended to reflect hazards presented by this or any other material under actual fire conditions.

INSULFLEX	COPPER PIPE	IRON PIPE	TUBING - UNIT LENGTH 2 METRES/6 FEET									
			Nom. Size OD		No. Size IPS		Nom. 10mm wall		Nom. 13mm wall		Nom. 19mm wall	
Nom. Insulation Size ID			mm	inch	mm	inch	No of Pes Per	Tot Mtrs Per Ctn	No of Pes Per	Tot Mtrs Per Ctn	No of Pes Per	Tot Mtrs Per Ctn
6	1/4	6	1/4				168	336	120	240	48	96
10	3/8	10	3/8				120	240	100	200	36	72
13	1/2	13	1/2	6	1/4		100	200	80	160	30	60
16	5/8	10	3/8				90	180	63	126	30	60
19	3/4	19	3/4		72		144	56	112	26	52	60
22	7/8	22	7/8	13	1/2		65	130	42	84	24	48
25	1	25	1				49	98	36	72	20	40
27	1 1/16	-	-	19	3/4		49	98	36	72	20	40
29	1 1/8	29	1 1/8	-	-		49	98	36	72	20	40
32	1 1/4	32	1 1/4	-	-		42	84	30	60	20	40
35	1 3/8	35	1 3/8	25	1		36	72	30	60	18	36
42	1 5/8	42	1 5/8	32	1 1/4		30	60	25	50	16	32
48	1 7/8	48	1 7/8	38	1 1/2		28	56	20	40	12	24
51	2	51	2	-	-		24	48	20	40	12	24
54	2 1/8	54	2 1/8				20	40	18	36	12	24
60	2 3/8	60	2 3/8	51	2		20	40	18	36	9	18
67	2 5/8	67	2 5/8				18	36	13	26	8	16
73	2 7/8	73	2 7/8	64	2 1/4 (ASTM)		18	36	13	26	8	16
76	3	76	3	64	2 1/2 (B.S.)		18	36	12	24	8	16
79	3 1/8	79	3 1/8				15	30	12	24	6	12
89	3 1/2	89	3 1/2	76	3		15	30	12	24	6	12

\* Standard Carton size: 2m length - 2080mm x 400mm x 330mm (82in x 16in x Bin), 6ft length.

