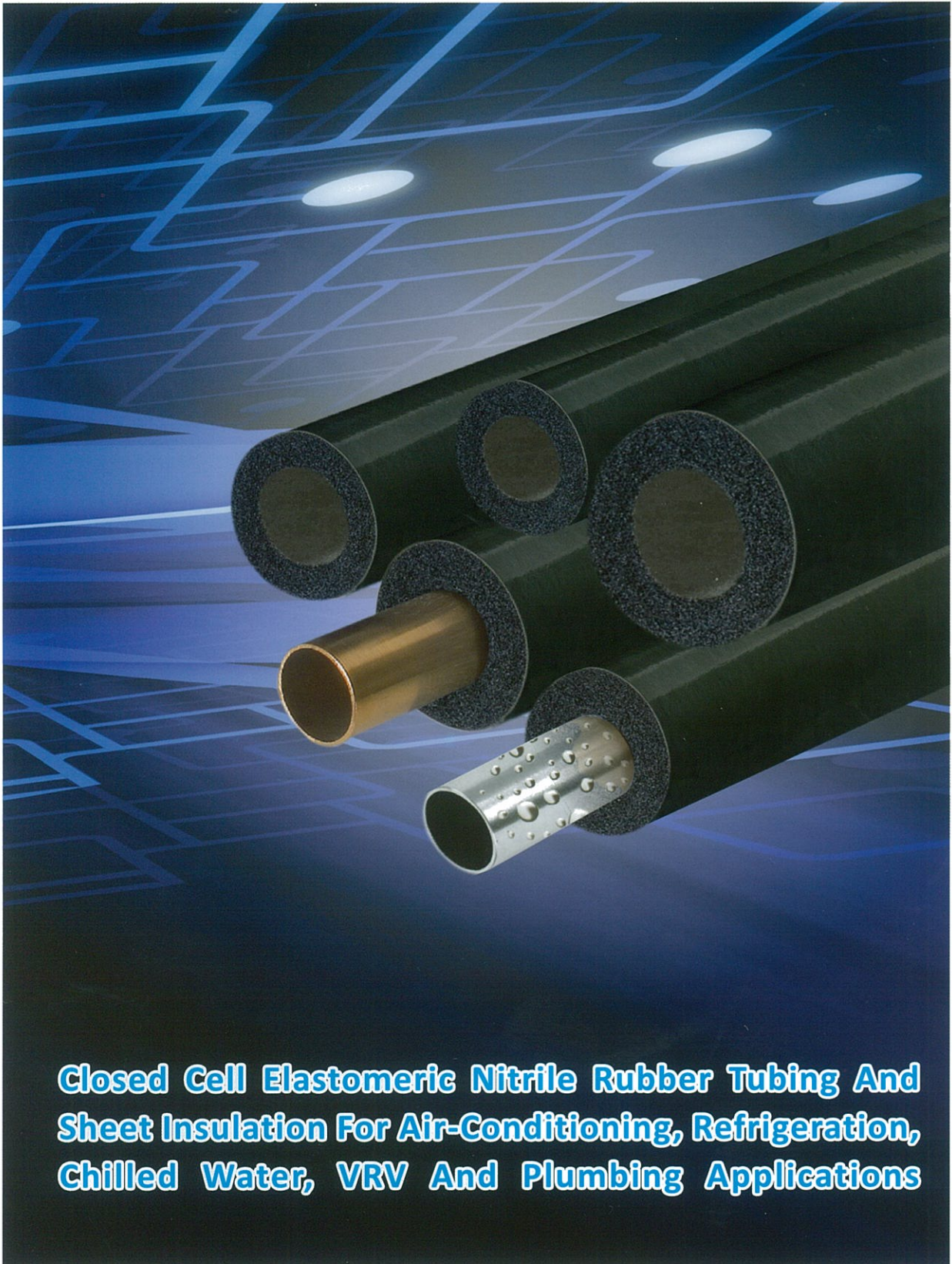


insulflex®



Closed Cell Elastomeric Nitrile Rubber Tubing And Sheet Insulation For Air-Conditioning, Refrigeration, Chilled Water, VRV And Plumbing Applications



TECHNICAL SPECIFICATIONS

insulflex® Closed Cell Tubing, Sheet and Roll Insulation

AVERAGE PHYSICAL PROPERTIES	RATING	TEST METHOD
Density	60 kg/m ³ to 80 kg/m ³	ASTM D1667
Thermal Conductivity ("K" Value) at 20°C mean temperature	0.0381 W/mK	ASTM C177
Temperature Limit °C	-40°C to +105°C	
Water Absorption (% by weight)	< 3%	ASTM D1056
Water Vapour Permeability Perm - in. Max	0.09 Perm-inch	ASTM E96
Water Vapour Resistance μ Factor	> 5000	DIN 52615 - 73
Thermal Stability (% shrinkage) 7 Days 200°F 7 Days 220°F	4.5 5.5	ASTM C548
Average Fire Propagation Average Surface Spread of Flame Average Time of Burning	Class O Class 1 Less than 5 seconds	BS 476 PART 6 BS 476 PART 7 ASTM D635 - 91
Reaction To Fire	V-0, 5VA, HF-1, Self-Extinguishing, No Dripping	UL 94
Fire Retardant	FM Approved Class O	Class: 4924
SIRIM QAS Listed Product		
Fire & Rescue Department of Malaysia Approval Class 'O' Product		
Singapore Certificate of Conformity (TUV/PSB Class 'O')		
Singapore Green Building Council (Awarded)		
REACH and RoHS (SGS)		

CHARACTERISTICS AND ADVANTAGES

- ✓ The extreme flexibility of the material makes installation fast, easy and economical
- ✓ Low thermal conductivity ('K' Value) which makes it highly efficient and effective in the insulation of cooling or heating system
- ✓ Closed cell structure forms a good water vapor barrier
- ✓ Able to withstand tearing, rough handling and severe site conditions
- ✓ Dust, fiber free and resistance to fungus growth
- ✓ Self extinguished in nature
- ✓ Non-corrosive



STANDARD INSULATION SIZE

insulflex® Tubing Size

No.	insulflex®		Copper Pipe		Iron Pipe		Tubing - Standard Unit Length (6 Feet)							
	Normal Insulation Size		Nominal Size (OD)		Nominal Size (IPS)		Nominal thickness 6mm	Nominal thickness 9mm	Nominal thickness 13mm	Nominal thickness 19mm	Nominal thickness 25mm	Nominal thickness 32mm	Nominal thickness 38mm	Nominal thickness 50mm
	mm	inch	mm	inch	mm	inch	Pcs/Ctn	Pcs/Ctn	Pcs/Ctn	Pcs/Ctn	Pcs/Ctn	Pcs/Ctn	Pcs/Ctn	Pcs/Ctn
1	6	1/4	6	1/4	-	-	250	168	100	48	-	-	-	-
2	10	3/8	10	3/8	-	-	200	120	90	36	30	-	-	-
3	13	1/2	13	1/2	6	1/4	150	100	70	30	28	-	9	-
4	16	5/8	16	5/8	10	3/8	120	90	63	30	24	-	9	6
5	19	3/4	19	3/4	-	-	100	72	56	26	20	-	9	6
6	22	7/8	22	7/8	13	1/2	90	65	42	24	20	14	9	6
7	25	1	25	1	-	-	80	49	36	20	18	12	9	6
8	28	1 1/8	28	1 1/8	19	3/4	-	49	36	20	18	12	9	6
9	32	1 1/4	32	1 1/4	-	-	-	42	30	20	16	12	-	-
10	35	1 3/8	35	1 3/8	25	1	-	36	30	18	15	12	8	4
11	42	1 5/8	42	1 5/8	32	1 1/4	-	30	25	16	12	10	8	4
12	48	1 7/8	48	1 7/8	38	1 1/2	-	28	20	12	10	9	6	4
13	51	2	51	2	-	-	-	24	20	12	9	8	-	-
14	54	2 1/8	54	2 1/8	-	-	-	20	18	12	9	6	6	4
15	60	2 3/8	60	2 3/8	51	2	-	20	18	9	9	6	6	4
16	67	2 5/8	67	2 5/8	-	-	-	18	13	8	8	6	6	4
17	73	2 7/8	73	2 7/8	64	2 1/2 (ASTM)	-	18	13	8	8	6	-	-
18	76	3	76	3	64	2 1/2 (B.S.)	-	18	12	8	8	6	-	-
19	79	3 1/8	79	3 1/8	-	-	-	15	12	6	6	5	-	-
20	89	3 1/2	89	3 1/2	76	3	-	15	12	6	6	5	-	-
21	100	4	100	4	-	-	-	13	12	6	5	5	-	-
22	115	4 1/2	115	4 1/2	102	4	-	13	10	6	5	5	-	-

Standard Carton Size : 6 ft length - 1905mm x 400mm x 330mm (75in x 16in x 13in)

insulflex® Sheet Flat

Standard Flat Sheets						
Nominal Thickness		Size		No of Sheets Per Carton	Total Area Per Ctn	
mm	inch	m	ft		m ²	ft ²
3	1/8	1.22 x 0.914	4 x 3	80	89.20	960
6	1/4	1.22 x 0.914	4 x 3	40	44.60	480
9	3/8	1.22 x 0.914	4 x 3	26	28.99	312
13	1/2	1.22 x 0.914	4 x 3	20	22.30	240
15	5/8	1.22 x 0.914	4 x 3	16	17.84	192
19	3/4	1.22 x 0.914	4 x 3	14	15.61	168
25	1	1.22 x 0.914	4 x 3	10	11.15	120
32	1 1/4	1.22 x 0.914	4 x 3	8	8.92	96
38	1 1/2	1.22 x 0.914	4 x 3	7	7.80	84
50	2	1.22 x 0.914	4 x 3	5	5.57	60

Standard Carton Size : 1310mm x 990mm x 320mm (51in x 39in x 12.5in)

insulflex® Sheet Roll

Continuous Rolls					
Nominal Thickness		Size Per Roll		Total Area Per Roll	
mm	inch	m	ft	m ²	ft ²
3	1/8	1.22 x 9.14	4 x 30	11.15	120
6	1/4	1.22 x 9.14	4 x 30	11.15	120
9	3/8	1.22 x 9.14	4 x 30	11.15	120
13	1/2	1.22 x 9.14	4 x 30	11.15	120
15	5/8	1.22 x 9.14	4 x 30	11.15	120
19	3/4	1.22 x 9.14	4 x 30	11.15	120
25	1	1.22 x 9.14	4 x 30	11.15	120
31	1 1/4	1.22 x 9.14	4 x 30	11.15	120
38	1 1/2	1.22 x 9.14	4 x 30	11.15	120
50	2	1.22 x 4.57	4 x 15	5.57	60

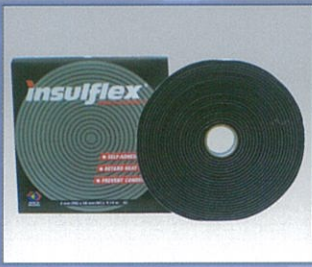
insulflex® Insulation Adhesive

Type of Packing	Quantity Per Carton
800ml	24 Tins

insulflex® Insulation Tape

Nominal Thickness		Size Per Roll		Quantity / Carton
mm	inch	(mm x m)	(inch x feet)	
3	1/8	24 x 9.14	1 x 30	48
3	1/8	48 x 9.14	2 x 30	24

insulflex® Insulation Tape

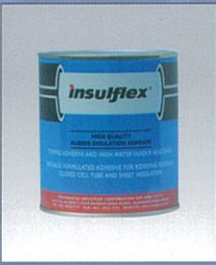


- Self Adhesive CFC free synthetic rubber insulation tape
- Ideal for insulating fittings, short pipe length, valves etc
- Adhere firmly to all types of pipe metal surface

Product Specifications	
Characteristic	Rating
Temperature Range	• -20°C to 80°C
Adhesive Surface	• Synthetic Rubber
Adhesion Strength	• 1000g/25mm area
Thermal Conductivity	• 0.0374W/(mk) at 20°C
Fire Rating (Tape)	• BS 476 Part 7 - Class 1
Ozone Resistance	• ASTM D 1171 - Good
Against Oil & Grease	• Good

Sizes and Packing		
Size	Qty/Box	Qty/Ctn
3 mm x 24 mm x 9.14 m	2	48
3 mm x 48 mm x 9.14 m	1	24

insulflex® Adhesive



- Synthetic rubber based adhesive
- Ensure strong joining of insulation to avoid condensation

Product Specifications	
Characteristic	Rating
Color	• Black
Adhesion Strength	• Excellent
Water Resistant	• Good (After drying)
Consumption	• 3m sq / per liter (Smooth Surface)

Sizes and Packing	
Volume Per Tin	Tin/Ctn
800 ml	• 24

insulflex® Elastomeric Paint



- Water based Tri-polymer elastomeric membrane paint
- To provide tough, elastic and weather proof coating for outdoor insulation
- Excellent adhesion properties and mechanical toughness to resist abrasion UV blistering in tough weather and extreme temperature

Product Specifications	
Characteristic	Rating
Type	• Water based Tri-polymer
Specific Gravity	• 1.35 +/- 0.03kg/liter
Consumption	• 12m sq / per liter (Smooth Surface)
Dilution	• Not necessary
Drying Time	• Touch dry 1 hour at 30°C
Overcoating Time	• 8 hours at 30°C

Sizes and Packing	
Volume Per Tin	Tin/Ctn
1 Liter	• 12

Distributor

insulflex®

MANUFACTURER:

INSULFLEX CORPORATION SDN. BHD. (743287-M)

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