

Technical Specifications

insulflex® Closed Cell Tubing, Sheet and Roll Insulation

AVERAGE PHYSICAL PROPERTIES	RATING	TEST METHOD
Density	65 kg/m ³ to 80 kg/m ³ (Tubing) 55 kg/m ³ to 80 kg/m ³ (Roll)	ASTM D1667
Thermal Conductivity ('K' Value) at 20°C mean temperature	0.038 W/mK	ASTM C518
Service Temperature °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 7 Days 200°F (% shrinkage) 7 Days 200°F	4.5 5.5	ASTM C548
Average Fire Propagation Average Surface Spread of Flame	Class 0 Class 1	BS 476 PART 6 BS 476 PART 7
Flammability	V-0, 5VA, HF-1	UL 94
Reaction To Fire	Self-Extinguishing, No Dripping	
SIRIM QAS Listed Product		
Fire & Rescue Department of Malaysia Approval Class 0 Product (BOMBA)		
Singapore Certificate of Conformity (TUV/PSB Class 0)		
Singapore Green Building Council (Awarded)		
Green Building Council of Australia		
REACH and RoHS (SGS)		

Product Testing Equipments



Density Test



Flame Retardant Test



Smoke Density Test



Hardness Test



Batch Oven

Characteristics & 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



Dust, fiber free and resistance to fungus growth



Self extinguished in nature



Able to withstand tearing, rough handling and severe site conditions



Tensile Stress

Tensile strength to 3 Mpa, hardness 55-80 density which provide safety and longer lifespan



Fire Resistance

Tested and conformed to British Standard BS476: Part 6 & 7



Thermal Insulating

Closed cell structure, thermal conductivity 0.038W/mK, conforms to ASTM C534 Standard



Water Resistance

Negligible water absorption due to closed cell structure



Environment Friendly

Environment Friendly can be handling at anytime, unlike fire board system which is very dusty during cutting

Product Applications- HVAC-R



Refrigerant Media

Good flexibility, easy installation and operation, applicable to the field of air conditioning refrigerant heat medium system brass



Chilled Water System

Excellent thermal insulation properties, can effectively prevent condensation generated, so air conditioning system performance significantly



Hot Water Piping System

Good insulation properties, soft and easy to install, so that less heat loss, more convenient installation



Ventilation Ductwork

Also comply with stringent multinational world fire standard. Greatly enhance the safety performance of the material for iron metal pipe thermal insulation field



Condensate System

Excellent resistance to water vapor permeability, softer and easy to install, suitable for condensing water pipe systems

Other Applications



Sound absorbing sheet is divided into flat and concave - convex surface, it mainly plays the role of sound absorption, vibration and noise reduction



Act as good protection pads for walls and floors, safety for public area



Rubber foam insulation board are widely used in the heat protection for roofing

Pre-insulated Paircoil

Insulflex SuperPair

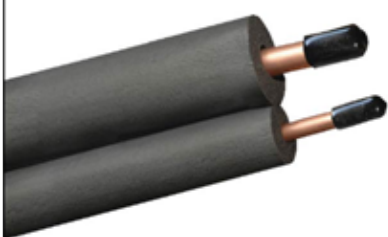
Superior pre-insulated annealed copper tube is ideal for fast and cost effective split air-conditioning installation

Insulflex SuperPair is made of high quality copper tube and pre-insulate with flexible closed cell nitrile rubber insulation

The advantages of using Insulflex SuperPair

- Manufactured to AS 1530:3 Standard
- Comply to R22/R410A/R407C/R404A/R134A
- Flexible, quick and easy installation
- Continuous length
- Joint-free

High quality fire retardant closed cell nitrile rubber insulation pair coil with excellent insulating and water permeability properties to prevent condensation on the air-conditioning piping system



Insulation Properties

Thermal Conductivity ('K' Value)	0.038 W/mK @ 20°C	ASTM C 158
Water Permeability Perm-In-max	0.09	ASTM E 96
Water Vapour Resistance μ Factor	> 5000	DIN 52615
Thermal Shrinkage @200° F	4.5% max	ASTM C 548
Flammability Test	V-0	UL 94
Fire Propagation	Class 0	BS 476 PART 6
Surface Spread of Flame	Class 1	BS 476 PART 7 AS 1530

Copper Composition (%)

Standard	Copper (Cu)	Phosphorus (P)
JIS H3300 Alloy No. C1220	99.90 min.	0.015 - 0.040
AS/NZS 1471:1995 (UNS Alloy C12200)	99.90 min.	0.015 - 0.040

Copper Tube Tensile Strength

Temper Grade	Designation	Tensile Test		Hardness Test			GRAIN SIZE (mm)
		Tensile Test strength (N/mm ²)	Elongation (%)	Rockwell Hardness			
				HR30T	HR15T	HRF	
OL	C1220 T-OL C1220 TS-OL	205 min.	30 min.	-	65 max.	55 max.	0.040 max.

Accessories



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

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

Product Specifications	
Characteristic	Rating
Temperature Range	-20°C to 80°C
Adhesive Surface	Double Side Tissue Tape (Acrylic Based)
Adhesion Strength	1000g/25mm area
Thermal Conductivity	0.038W/mK at 20°C
Fire Rating (Tape)	BS 476 Part 7 - Class 1
Ozone Resistance	ASTM D 1171 - Good
Against Oil & Grease	Good



CORK TAPE

- Applicable for all types air-conditioner and refrigeration piping/ valves/ joints in home, commercial and industrial buildings
- Seals tightly to effectively prevent condensation in the cooling piping system

Size and Packing		
Nominal Size	Qty/ Box	Qty/ Ctn
3mm x 50mm x 9.14m	1	12

Product Specifications	
Characteristic	Rating
Service Temperature	-29°C to 93°C
Chemical Resistance	Resistance to oil, dilute acid and dilute alkalis
Adhesion	Good adhesion to metal, wood, glass, masonry, concrete and plastic
Penetration	200-240mm @ 30°C (150gm, 30 Sec)



ADHESIVE

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

Size and Packing	
Volume Per Tin	Tin/ Ctn
800ml	24

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



PIPE SUPPORT

- Closed cell structure completely seals out air and moisture
- High pressure foamed high density PEVA with special treatment for long service life
- Insulates against temperature, fire resistance
- Well designed for pipe support application, durable and high load bearing property
- CFC, HCFH free

Product Specifications	
Characteristic	Rating
Environment Friendly	Material can be recycled
Material Hardness	Strong (hardness over 85° hs)
Water Absorption	Negligible Water Absorption
Compressive Test	Sustain High Pressure
Service Life	at least 10 years
Chemical Reaction with fire	Non-toxic
Thermal Conductivity	Good ≤ 0.057 w/mk

Distributor:

S **Salaar Traders**

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