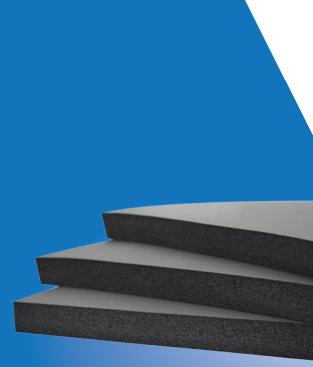
# SUPERLON®

Quality NBR Insulation





**Closed Cell NBR Insulation** 

Tubing and Sheet for the HVAC&R Industry

### **About Superlon**

Incorporated in Malaysia in 1992, Superlon Worldwide has accumulated more than 30 years of manufacturing experience in nitrile butadiene rubber (NBR) foam. Our utmost priority is to assure consistent excellence of our insulation materials and provide a service that is second to none. We pride ourselves in presenting our customers with quality products together with prompt and reliable services.

**Superion worldwide** is the preferred NBR insulation manufacturer for the HVAC and R industry in Malaysia. Over the years, we have gained a wide array of experienced business partners, and formed various valuable collaborations and distribution networks allowing us to be the market leader.









### **Milestones**



1002

Superlon founded in Malaysia



1998

Certified with ISO9001 for quality management systems.



#### 2007

Listed on Malaysia Stock Exchange Market (Bursa Malaysia).



2017

Built new 65,000 sqft warehouse.



2023

Established production plant in Hanoi, Vietnam.

#### 1996

Expanded facilities to Klang, Selangor.



#### 2006

Certified with ISO14001 for environment management systems.



Expanded new factory in



#### 2012

Certified by Factory Mutuals (FM) Approvals



#### 2018

Established production plant in Ho Chi Minh City, Vietnam.



### Distributed to more than 70 countries worldwide

### **AMERICAS**

**Brazil** Canada Chile Colombia **Costa Rica Dominican Republic El Salvador Ecuador** Guatemala **Honduras Jamaica** Mexico Peru **Puerto Rico** Panama **United States** Venezuela

### **EUROPE**

Austria
Cyprus
Denmark
Germany
Greece
Malta
Norway
Portugal
Spain
Sweden
Switzerland
Turkey
United Kingdom

### **AFRICA**

Algeria Egypt Kenya Mauritius Nigeria Rwanda South Africa Uganda

### MIDDLE EAST

Bahrain Iran Israel Jordan Kuwait Oman Lebanon Pakistan Saudi Arabia Syria UAE

### **SOUTH ASIA**

Bangladesh India Maldives Nepal Sri Lanka

### **SOUTH EAST ASIA**

MALAYSIA (HQ)
Brunei
Cambodia
Indonesia
Laos
Myanmar
Philippines
Singapore
Thailand
Vietnam (Plant)

#### **EAST ASIA**

China Hong Kong S. Korea Japan Taiwan

### **OCEANIA**

Australia New Zealand Papua New Guinea

Superior insulation materials are engineered with the highest standard. Our closed cell characteristic is the key component to an effective insulator by providing a barrier between the pipe's surface and atmospheric conditions.

### ✓ Low thermal conductivity and high moisture resistance:

Superlon's insulation materials are produced with a high percentage of closed cells.

### ✓ Superior fire performance:

Superlon's insulation materials are available in Class 1, Class 0 and FM Approved. In addition, Superlon insulation materials have a high oxygen index.

### ✓ Continuous commitment to provide the best:

Superlon invests in R&D and are striving to further enhance its formulation to provide the best insulation solution.

### ✓ Fast and easy installation:

Superlon insulation materials are very flexible allowing installers to fabricate, cut to specific shapes, sizes and fittings for fast and efficient installations.

### ✓ Low allergen:

Unlike other types of insulation products, Superlon insulation materials are dust and fiber free which do not present any health related hazards.

#### ✓ Eco Friendly:

Zero Ozone Depleting Potential (ODP), zero Global Warming Potential (GWP) and low Volatile Organic Compounds (VOC).

### ✓ Aesthetically pleasing:

Although Superlon's insulation materials are mainly black in color, the surface of the skin is smooth presenting a respectable finish on any given job type. Color products are also available.

With the right installation methods and techniques Superlon insulation materials will not only provide good thermal insulation but also contribute to a longer life span of the system that it insulates.

#### Certification





























### **Indoor Air Quality**

Superlon insulation does not contain any dusts and fibres.

Dust and fibres entering air ducts may cause discomfort when breathed and can sometimes be harmful to health.

Furthermore, Superlon insulation is produced with low volatile organic compounds (VOCs) which are crucial as good ventilation and insulation systems can reduce the incidences from indoor air pollutants.

Superlon's insulation products also does not contain any formaldehyde, and does not contribute to a buildings overall formaldehyde level. Formaldehyde is a known human carcinogen, it is essential to keep formaldehyde levels down.



### **Eco Friendly**

Superlon's insulation's manufacturing process is produced without CFCs and HCFCs. Furthermore, it does not contribute to global warming and has no ozone depleting potential.

#### **No Mould Growth**

The inherent closed cell structure and high water vapour permeability inhibits mould growth. With no vapour barrier jacketing needed, Superlon's smooth skin surface does not trap dust.

### **Superion Insulation Characteristic**

#### Closed Cell Structure

Closed cell structure along with a lower density prevents thermal bridging and minimises heat gains/losses.

### Low Water Absorption

Low water absorption of  $\leq$  0.2% ensures long term thermal conductivity stability so that it can continue to conserve energy and prevent surface condensation.



### **Low Thermal Conductivity**

Superlon is the best energy saving choice with a low thermal conductivity of  $\lambda$  20° C  $\leq$  0.034 W/m-K.

### Low Water Vapour Permeability

Unlike other products in the market, Superlon does not need a vapour barrier such as a silver jacketing as the product itself has very low water permeability and a moisture resistance factor of  $\mu \ge 12,000$ .

### Superion Class 1 & Class 0

Superlon Class 1 and Class 0 is an elastomeric nitrile foamed insulation engineered and designed specifically to control condensation. Its main uses are for an insulating pipework particularly for air conditioning ducting, chilled water lines and refrigerated pipes.

Each insulation in tube or sheet form is made with closed cells that can properly insulate against heat loss and heat gain in many differing environments. With low k-value, water absorption and high moisture resistance, Superlon insulation ensures proper control of condensation in conjunction with reduced energy costs.

While thermal conductivity and water resistance have always been the key elements in determining the functionality and effectiveness of insulation, fire resistance has increasingly gained importance for its role in preventing flame spread.

Superlon's spread of flames is rated Class 1 (BS 476 part 7) for standard insulation tubes and sheets. Superlon's Class 0 (BS 476 part 6) is a higher standard of fire resistance with fire propagation rated a total index (I)  $\leq$  12 and sub-index (i<sub>1</sub>) of  $\leq$  6.

Furthermore, both Class 1 and Class 0 insulation does not drip and self-extinguishes upon removal of flames. Its flexible black and aesthetically pleasing surface makes installation simple quick and easy.









Member of the FM Global Group



### **Superion FM Approved**

Factory Mutual (FM) Approved, it is a third party independent testing arm of a mutual insurance company for the purpose to insure a building or property exclusively.

FM Approvals uses scientific research and rigorously tested using real world tests such as the pipe chase test and room tests. It is one of the highest and most stringent standard and ensures all approved products pass the aggressive level of FM performance, efficiency and quality requirement of safety and property loss prevention.

All Superlon insulation materials does not drip, does not contribute to flame spread and the product self-extinguishes unlike other foam plastic insulation which could have devastating flame spread.

At Superlon, we ensure all products are manufactured at its top of the line standard.

### **Insulation Specification List**

	Values	Test Methods
Material	Nitrile Foamed Rubber	
Cell Structure	Closed Cell	
Density	40kg/m³ - 80kg/m³	ASTM D1667
Service Temperature	-50°C to 125°C	
Surface Spread of Flames	Class 1	BS 476 Part 7
Fire Performance Fire Propagation	Class 0 Total Index (I) $\leq 12$ Sub Index (i <sub>1</sub> ) $\leq 6$	BS 476 Part 6
FM Approved	Pipes up to 2" (51mm) thickness Sheets up to 2" (51mm) thickness Multiple layers up to 4" (102mm) thickness	FM4924
Flame Spread Index/Smoke Developed Index	25/50	ASTM E84
Reaction to Fire Oxygen Index	V-0, Self Extinguishing, Does not Drip ≥ 33%	UL94 JIS K 6911 KS M6962
Thermal Conductivity	Mean Temp         0°C         20°C         40°C           W/m⋅K         ≤ 0.032         ≤ 0.034         ≤ 0.036	ASTM C518 ASTM C177
Water Vapour Permeability	≤0.89 x 10 <sup>-14</sup> kg/Pa.m.s	ASTM E96
Water Absorption by Volume	$\mu \ge 12,000$	ASTM C209
	≤ 0.2%	
Tensile Strength	≥ 200 Kpa	ASTM D412
Dimensional Stability	<7% at 93°C (200°F) and 105°C (220°F)	ASTM C534
Compression Set	6.00%	KS M6962
	Octave Frequency Sound Absorption Coefficient α	1
Acoustic Performance	125 Hz 0.13 250 Hz 0.22	
based on 1" (25mm)	500 Hz 0.53	
thickness	1000 Hz 0.66	ASTM C423
	2000 Hz 0.61	
	4000 Hz 0.68	
	NRC 0.50	
Ozone Resistance Corrosion Resistance	Good No Corrosion	ASTM G155
Environment	Dust & Fibre Free, CFC Free, Zero ODP & GWP Certified by SGBC (Singapore) and DCL (Dubai) Green Label Compliant Formaldehyde Free Low Volatile Organic Compounds (VOCs) Low Smoke Toxicity RoHS Compliant No Fungal Growth Negligible Bacterial Growth	ASTM D5116 JIS A 1901 JIS K 7217 RoHS 2011/65/EU ASTM G21 ASTM E2180

### **Products Range**



### **HD Tubing And Roll Sheets**

Superlon material is a higher density alternative for the regular line of Superlon insulation materials. It is harder, stronger and tougher with a higher tensile strength than other equivalent materials in the market.

Superlon material is highly durable with a shore C hardness of greater than 10 and density greater than 80kg/m³. Furthermore, like all other Superlon products, every piece of Superlon material is engineered, produced and controlled with stringent procedures to ensure quality and effectiveness.

### **Aluminium Rolls & Sheets**

When applications and installation areas require an aesthetically pleasing feel or to protect the insulation from unnecessary impact, aluminium sheets would be the recommended choice. Most commonly used in open ceiling ducting lines and also chiller systems. UV resistant aluminium jacketing is available upon request should the application is under harsh and extreme UV conditions.



### **Adhesive Rolls & Sheets**

For your installation convenience adhesive backing with release paper is available. Adhesive sheets offer the ease of installation with the performance of specifically formulated adhesive lamination without the mess and hassle glue saving you both time and money.

### **Accessories**



### **FOAM / GASKET TAPE**

Our foam and gasket tapes can be used in a wide array of applications. Foam vibration dampening to cushioning to reduce impact. It is most commonly used for joining areas where glue was used for adhesion of our insulation materials.

**Packing Size** 

3mm x 48mm x 30ft : 24 roll / ctn 5mm x 15mm x 10m: 72 roll / ctn



### **PAINT**

Available in 5 liter tins. Black in color, the paint is best used for prolonging the lifespan of the insulation under normal atmospheric conditions. Should intense heat and continuous harsh UV conditions be present in the application area, we recommended the use of UV resistant jacketing such as UV resistant aluminum. (Available upon request)

**Packing Size** 

5 Litre: 4 cans / carton 1 Litre: 12 cans / carton



#### **GLUE**

Available in 1 liter tins and 3.36 liter tins. The glue is specifically formulated for the best adhesion for our rubber foam. It is best used for joining sheets and tubes together. For enhanced performance, please apply foam tape on to joining area when glue dries.

**Packing Size** 

1 Litre : 15 cans / ctn 3.36 Litre : 6 cans / ctn



#### COLOR PRODUCTS

Superlon insulation material is also available in various colors upon request.

### **Sizes & Packing Quantities**

Insulation Pipes (Pieces per carton box)

	ernal	Insulation Wall Thickness													
Diar	meter	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"						
Inches	mm	6	9	13	19	25	32	38	51						
1/4"	6	265	195	120	49	32									
3/8"	10	205	140	100	42	30	15								
1/2"	13	156	120	80	36	25	12	10	6						
5/8"	16	123	100	72	36	23	12	9	6						
3/4"	19	100	80	64	30	20	12	9	6						
7/8"	22	90	72	56	27	18	11	9	6						
1"	25	80	63	48	24	17	11	9	6						
1 1/8"	28	72	56	42	24	16	9	9	6						
1 1/4"	32	56	51	38	20	16	9	9	4						
1 3/8"	35	48	46	35	16	12	9	9	4						
1 1/2"	38	42	43	33	16	12	9	8	4						
1 5/8"	42		40	30	16	12	9	8	4						
1 7/8"	48		35	25	15	10	8	6	4						
2"	51		24	20	12	9	8	6	4						
2 1/8"	54		22	20	12	9	8	6	4						
2 1/4"	57		21	20	12	9	6	6	4						
2 3/8"	60		20	18	12	9	6	6	3						
2 1/2"	64		20	15	9	8	6	6	3						
2 5/8"	67		18	15	9	8	6	6	3						
2 7/8"	73		18	14	9	8	4	4	3						
3"	76		18	14	8	8	4	4	3						
3 1/8"	79		16	12	8	6	4	4	3						
3 1/2"	89		16	12	8	6	4	4	3						
4"	102		14	12	6	6	4	3	2						
4 1/8"	105		14	12	6	5	4	3	2						
4 1/4"	108		14	12	6	5	4	3	2						
4 1/2"	114		14	12	6	4	4	3	2						
5"	127		12	9	6	4	3	3	2						
5 1/8"	130		10	9	6	3	3	3	2						
5 1/4"	133		10	9	6	3	3	3	2						
5 1/2"	140		10	8	6	3	3	3	2						
6"	152		10	8	6	3	3	3	2						
6 ¼"	159		9	8	6	3	3	2	1						
6 ½"	165		9	8	6	3	3	2	1						

### **Insulation Rolls**

Thick	ness	Size
Inches	mm	Metres
1/4"	6	1.22 x 24.0
3/8"	9	1.22 x 21.0
1/2"	13	1.22 x 15.0
5/8"	16	1.22 x 14.0
3/4"	19	1.22 x 9.0
1"	25	1.22 x 8.0
1 1/4"	32	1.22 x 6.0
1 1/2"	38	1.22 x 5.0
2"	51	1.22 x 4.0
S Skin	All	1.22 x 9.14

### **Insulation Sheets**

۹	Thickne	:SS	Size	Pcs Per		
	Inches	mm	Metres	Feet	Carton	
	1/8"	3	1.22 x 0.914	4' x 3'	80	
	1/4"	6	1.22 x 0.914	4' x 3'	40	
	3/8"	9	1.22 x 0.914	4' x 3'	26	
	1/2"	13	1.22 x 0.914	4' x 3'	20	
	5/8"	16	1.22 x 0.914	4' x 3'	16	
ij	3/4"	19	1.22 x 0.914	4' x 3'	14	
7	1"	25	1.22 x 0.914	4' x 3'	10	
	1 1/4"	32	1.22 x 0.914	4' x 3'	8	
į,	1 1/2"	38	1.22 x 0.914	4' x 3'	7	
	2"	51	1.22 x 0.914	4' x 3'	5	

#### Note:

- Can be customized to single skin or double skin.
- Adhesive and aluminum jacketing available in the same sizes as above.
- 3mm (1/8") thk and other sizes can be customized, contact Superion sales for more information.

### **SUPERLON PIPE SIZE MATCHING GUIDE**

Superlon Tubing Internal Dimension		\$	Steel Pipes	5	PVC I	Pipes		Pipe for and Gas	Cooper Pipe for Air-Cond and Refrigeration			
(ID)		ļ ,	ASME B36-:	l	BS 3	505	ASTIV	1 B088	ASTM	TM B280		
		Nominal Size	Nominal Size	Actual OD Size	Nominal Size	Actual OD Size	Nominal Size	Actual OD Size	Nominal Size	Actual OD Size		
Inches	mm	DN	Inch	mm	Inch	mm	Inch	mm	Inch	mm		
1/4"	6								1/4"	6.35		
3/8"	10						1/4"	9.52	3/8"	9.52		
1/2"	13						3/8"	12.7	1/2"	12.7		
5/8"	16						1/2"	15.9	5/8"	15.9		
3/4"	19				3/8"	17.3	5/8"	19.1	3/4"	19.1		
7/8"	22	15	1/2"	21.3	1/2"	21.5	3/4"	22.2	7/8"	22.2		
1"	25											
1 1/8"	28	20	3/4"	26.7	3/4"	26.9	1"	28.6	1 1/8"	28.6		
1 1/4"	32											
1 3/8"	35	25	1"	33.4	1"	33.7	1 1/4"	34.9	1 3/8"	34.9		
1 1/2"	38											
1 5/8"	42	32	1 1/4"	42.2	1 1/4"	42.4	1 1/2"	41.3	1 5/8"	41.3		
1 7/8"	48	40	1 1/2"	48.3	1 1/2"	48.4						
2"	51											
2 1/8"	54						2"	54	2 1/8"	54		
2 1/4"	57											
2 3/8"	60	50	2"	60.3	2"	60.5						
2 1/2"	64											
2 5/8"	67						2 1/2"	66.7	2 5/8"	66.7		
2 7/8"	73	65	2 1/2"	73								
3"	76				2 1/2"	75.3						
3 1/8"	79						3"	79.4	3 1/8"	79.4		
3 1/2"	89	80	3"	88.9	3"	89.1						
4"	102	90	3 1/2"	101.6								
4 1/8"	105		,				4"	104.8	4 1/8"	104.8		
4 1/4"	108											
4 1/2"	114	100	4"	114.3	4"	114.5						
5"	127	115	4 1/2"	127								
5 1/8"	130						5"	130.2				
5 1/4"	133											
5 1/2"	140	125	5"	141.3	5"	140.4						
6"	152		-									
6 1/4"	159											
6 1/2"	165	150	6"	168.3	6"	168.5						

- Superlon's wide range of ID up to 6 ½" ensure that pipes can be fitted properly over a variety of sizes.
- For other pipes and pipes from other standards, it is recommended to check the actual size (OD) of the pipes.
  Superlon can assist if customers are unsure about the correct sizing.

### Comprehensive Thickness Guide for Condensation Control Recommended Thickness (mm) for Superlon Insulation Materials

Ambient Temperature		25	°C			30	°C		35°C				40°C			
Relative Humidity	75%	80%	85%	90%	75%	80%	85%	90%	75%	80%	85%	90%	75%	80%	85%	90%
LineTemp: +20°C																
1" (25mm) Pipe OD	10	10	10	10	10	10	13	19	10	13	19	25	13	19	19	32
2" (51mm) Pipe OD	10	10	10	13	10	10	13	25	10	13	19	32	13	19	25	38
3" (76mm) Pipe OD	10	10	10	13	10	10	13	25	10	13	19	32	13	19	25	51
4" (102mm) Pipe OD	10	10	10	13	10	10	13	25	10	13	19	32	13	19	25	51
5" (127mm) Pipe OD	10	10	10	13	10	10	13	25	10	13	19	38	13	19	25	51
6" (152mm) Pipe OD	10	10	10	13	10	10	13	25	10	13	19	38	13	19	32	51
8" (203mm) Pipe OD	10	10	10	13	10	10	13	25	10	13	19	38	13	19	32	51
10" (254mm) Pipe OD	10	10	10	13	10	10	13	25	10	13	19	38	13	19	32	51
12" (305mm) Pipe OD	10	10	10	13	10	10	13	25	10	13	19	38	13	19	32	51
LineTemp: +15°C																
1" (25mm) Pipe OD	10	10	13	19	10	13	19	32	13	19	25	32	13	19	25	38
2" (51mm) Pipe OD	10	10	13	25	10	13	19	32	13	19	25	38	19	19	32	51
3" (76mm) Pipe OD	10	10	13	25	10	13	19	32	13	19	25	51	19	25	32	51
4" (102mm) Pipe OD	10	10	13	25	10	13	19	38	13	19	25	51	19	25	32	51
5" (127mm) Pipe OD	10	10	13	25	10	13	25	38	13	19	32	51	19	25	32	51
6" (152mm) Pipe OD	10	10	19	25	10	13	25	38	13	19	32	51	19	25	32	64
8" (203mm) Pipe OD	10	10	19	25	10	19	25	38	13	19	32	51	19	25	38	64
10" (254mm) Pipe OD	10	10	19	32	10	19	25	38	13	19	32	51	19	25	38	64
12" (305mm) Pipe OD	10	10	19	32	10	19	25	38	13	19	32	51	19	25	38	64
LineTemp: +10°C																
1" (25mm) Pipe OD	10	13	19	32	13	19	25	38	13	19	25	38	19	25	32	51
2" (51mm) Pipe OD	10	13	19	32	13	19	25	38	19	25	32	51	19	25	32	51
3" (76mm) Pipe OD	10	13	25	38	13	19	25	51	19	25	32	51	19	25	38	64
4" (102mm) Pipe OD	10	19	25	38	13	19	25	51	19	25	32	51	19	32	38	64
5" (127mm) Pipe OD	10	19	25	38	13	19	32	51	19	25	32	64	25	32	38	64
6" (152mm) Pipe OD	10	19	25	38	19	19	32	51	19	25	32	64	25	32	38	64
8" (203mm) Pipe OD	10	19	25	38	19	19	32	51	19	25	38	64	25	32	51	76
10" (254mm) Pipe OD	10	19	25	51	19	19	32	51	19	25	38	64	25	32	51	76
12" (305mm) Pipe OD	10	19	25	51	19	19	32	51	19	25	38	64	25	32	51	76
Line Temp: +5°C																
1" (25mm) Pipe OD	13	19	25	38	19	19	25	51	19	25	32	51	19	25	32	51
2" (51mm) Pipe OD	13	19	25	51	19	19	32	51	19	25	32	51	25	32	38	64
3" (76mm) Pipe OD	13	19	32	51	19	25	32	51	19	25	38	64	25	32	38	64
4" (102mm) Pipe OD	19	19	32	51	19	25	32	64	25	32	38	64	25	32	51	76
5" (127mm) Pipe OD	19	19	32	51	19	25	38	64	25	32	38	64	25	32	51	76
6" (152mm) Pipe OD	19	19	32	51	19	25	38	64	25	32	51	64	25	32	51	76
8" (203mm) Pipe OD	19	25	32	51	19	25	38	64	25	32	51	76	25	32	51	76
10" (254mm) Pipe OD	19	25	32	51	19	25	38	64	25	32	51	76	25	32	51	102
12" (305mm) Pipe OD	19	25	32	64	19	25	38	64	25	32	51	76	25	38	51	102
Line Temp: 0°C																
1" (25mm) Pipe OD	19	19	32	51	19	25	32	51	19	25	32	51	25	32	38	64
2" (51mm) Pipe OD	19	25	32	51	19	25	38	64	25	32	38	64	25	32	51	64
3" (76mm) Pipe OD	19	25	32	51	25	32	38	64	25	32	51	64	25	32	51	76
4" (102mm) Pipe OD	19	25	38	64	25	32	38	64	25	32	51	76	32	38	51	76
5" (127mm) Pipe OD	19	25	38	64	25	32	51	64	25	32	51	76	32	38	51	102
6" (152mm) Pipe OD	19	25	38	64	25	32	51	76	25	32	51	76	32	38	51	102
8" (203mm) Pipe OD	19	25	38	64	25	32	51	76	25	38	51	76	32	38	64	102
10" (254mm) Pipe OD	19	25	38	64	25	32	51	76	25	38	51	102	32	38	64	102
12" (305mm) Pipe OD	19	32	38	64	25	32	51	76	25	38	51	102	32	38	64	102

At Superion condensation prevention is our utmost priority. As a safety to prevent condensation, calculated figures are based on dew point temperature adding +0.5°C with a external surface coefficient of 9 W/M2-K. Thicknesses should be recalculated if there is any use of jacketing such as aluminium as the external surface coefficient will be changed.

Note: Recommended thicknesses are to be used as a guide. Results are obtained under typical conditions. Superlon does not guarantee it will be prevent condensation. Other factors such as proper installation is crucial in condensation prevention. Calculations are based on condensation prevention only and does not take into account heat(cold) loss. Please consult with our technical staff for more precise calculations or if the installation environment differs.

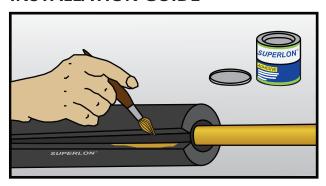
# Comprehensive Thickness Guide for Condensation Control Recommended Thickness (mm) for Superlon Insulation Materials

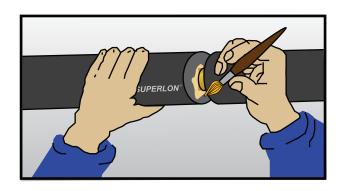
Relative Humidity	Ambient Temperature	25°C			30°C				35°C				40°C				
LineTemp: 5*C		75%	80%	85%	90%	75%	80%	85%	90%	75%	80%	85%	90%	75%	80%	85%	90%
1** CSFmm  Pipe OD													•				
2*  Germm  Pipe OD		19	25	32	51	19	25	38	51	25	32	38	64	25	32	38	64
3'(76mm) Pipe OD																	
4"(102mm) Pipe OD																	
B'(152mm) Pipe OD																	
8" (203mm) Pipe OD																	
10° (284mm) Pipe OD													_				
12" (305mm) Pipe OD												-					
1"(25mm) Pipe OD	12" (305mm) Pipe OD																
1"(25mm) Pipe OD	LineTemp: -10°C																
2"(51mm) Pipe OD		19	25	38	64	25	32	38	64	25	32	51	64	25	38	51	76
3" (76mm) Pipe OD																	
4"(102mm) Pipe OD	3" (76mm) Pipe OD		32	51	76		38			32		51			51		
6" (152mm) Pipe OD 32 38 51 102 32 38 64 102 32 51 64 102 38 51 64 102 10" (254mm) Pipe OD 32 38 64 102 32 51 64 102 38 51 64 102 10" (254mm) Pipe OD 32 38 64 102 32 51 64 102 38 51 64 102 10" (254mm) Pipe OD 32 38 64 102 32 51 64 102 38 51 64 102 38 51 76 127 12" (305mm) Pipe OD 32 38 64 102 32 51 64 102 38 51 76 127 12" (305mm) Pipe OD 32 38 64 102 32 51 64 102 38 51 76 127 12" (305mm) Pipe OD 32 38 64 102 32 51 64 102 38 51 76 127 12" (305mm) Pipe OD 32 38 51 76 32 38 51 76 127 12" (305mm) Pipe OD 32 38 64 102 32 51 64 102 38 51 102 32 51 64 102 38 10" (10" (10" Minimal Pipe OD) 32 38 64 102 32 51 64 102 38 51 102 38 51 64 102 38 10" (10" Minimal Pipe OD) 32 38 64 102 32 51 64 102 38 51 64 102 3	4" (102mm) Pipe OD															64	
6" (152mm) Pipe OD 32 38 51 102 32 38 64 102 32 51 64 102 38 51 64 102 10" (254mm) Pipe OD 32 38 51 102 32 51 64 102 32 51 64 102 38 51 76 127 12" (305mm) Pipe OD 32 38 64 102 32 51 64 102 38 51 76 127 12" (305mm) Pipe OD 32 38 64 102 32 51 64 102 38 51 76 127 12" (305mm) Pipe OD 32 38 64 102 32 51 64 102 38 51 76 127 12" (305mm) Pipe OD 25 32 38 64 25 32 51 64 22 38 51 76 22" (51mm) Pipe OD 25 32 38 64 25 32 51 64 22 38 51 102 32 51 64 102 38 51 76 127 12" (25mm) Pipe OD 32 38 51 76 32 38 51	5" (127mm) Pipe OD		38		76				102	32		64	102			64	
10" (254mm) Pipe OD   32   38   51   102   32   51   64   102   32   51   64   102   38   51   76   127	6" (152mm) Pipe OD			51	102				102	32		64	102		51	64	
12" (305mm) Pipe OD   32   38   64   102   32   51   64   102   38   51   76   127	8" (203mm) Pipe OD	32	38	51	102	32		64	102	32	51	64	102	38	51	64	102
LineTemp: -15°C	10" (254mm) Pipe OD	32	38	51	102	32	51	64	102	32	51	64	102	38	51	76	127
1"(25mm)   Pipe OD   25   32   38   64   25   32   51   64   32   32   51   76   32   38   51   76   32   38   51   76   32   38   51   76   32   38   51   76   32   38   51   76   32   38   51   76   32   38   51   76   32   38   51   76   32   38   51   76   32   38   51   102   32   51   64   102   32   51   64   102   38   51   64   102	12" (305mm) Pipe OD	32	38	64	102	32	51	64	102	38	51	64	102	38	51	76	127
2"(51mm) Pipe OD	LineTemp: -15°C																
3" (76mm) Pipe OD 32 38 51 76 32 38 51 102 32 51 64 102 38 51 64 102 3	1" (25mm) Pipe OD	25	32	38	64	25	32	51	64	32	32	51	76	32	38	51	76
4" (102mm) Pipe OD         32         38         51         102         32         51         64         102         32         51         64         102         38         51         64         102         32         51         64         102         38         51         64         102         38         51         64         102         38         51         64         102         38         51         64         102         38         51         64         102         38         51         64         102         38         51         64         102         38         51         64         102         38         51         64         102         38         51         64         102         38         51         64         102         38         51         64         102         38         51         64         102         38         51         76         127         51         76         127         10"         (254mm) Pipe OD         32         51         64         102         38         51         76         127         51         64         102         38         51         76         32         38         51		25		51	76			51	76	32	38	51	102	32	51	64	
5" (127mm) Pipe OD         32         38         64         102         32         51         64         102         38         51         64         102         38         51         64         102         38         51         64         102         38         51         64         102         38         51         64         102         38         51         64         102         38         51         64         102         38         51         64         102         38         51         64         102         38         51         64         102         38         51         64         102         38         51         64         102         38         51         64         102         38         51         64         102         38         51         64         102         38         51         64         102         38         51         76         127         51         64         76         127           10" (254mm) Pipe OD         32         32         51         76         32         38         51         76         32         38         51         76         427         51         64         102	3" (76mm) Pipe OD	32	38	51	76	32	38	51	102	32	51	64	102	38	51	64	102
6"(152mm) Pipe OD 32 38 64 102 32 51 64 102 38 51 64 102 38 51 64 102 38 51 76 127 8"(203mm) Pipe OD 32 51 64 102 38 51 64 102 38 51 64 102 38 51 64 102 38 51 64 102 38 51 76 127 10"(254mm) Pipe OD 32 51 64 102 38 51 64 102 38 51 76 127 51 51 51 76 127 12"(305mm) Pipe OD 32 51 64 102 38 51 64 102 38 51 76 127 51 64 76 127 12"(254mm) Pipe OD 32 51 64 102 38 51 76 32 38 51 76 127 12"(254mm) Pipe OD 32 38 51 76 32 38 51 76 32 38 51 76 32 38 51 76 32 38 51 76 127 12"(254mm) Pipe OD 32 38 51 64 102 38 38 51 64 102 38 51 64 1	4" (102mm) Pipe OD	32	38	51	102	32	51	64	102	32	51	64	102	38	51	64	102
8"(203mm) Pipe OD 32 51 64 102 38 51 64 102 38 51 64 102 38 51 76 127 10"(254mm) Pipe OD 32 51 64 102 38 51 64 102 38 51 76 127 51 51 76 127 12"(305mm) Pipe OD 32 51 64 102 38 51 76 32 38 51 76 127 51 64 76 127 12"(254mm) Pipe OD 32 38 51 76 32 38 51 76 32 38 51 76 32 38 51 76 127 12"(51mm) Pipe OD 32 38 51 76 32 38 51 102 32 51 64 102 38 51 64 102 38 51 64 102 38 51 64 102 38 51 64 102 38 51 64 102 38 51 64 102 38 51 64 102 38 51 64 102 38 51 64 102 38 51 64 102 38 51 64 102 38 51 64 102 38 51 64 102 38 51 64 102 38 51 64 102 38 51 64 102 38 51 76 127 12"(51mm) Pipe OD 32 51 64 102 38 51 64 102 38 51 64 102 38 51 64 102 38 51 76 127 12"(51mm) Pipe OD 32 51 64 102 38 51 64 102 38 51 64 102 38 51 64 102 38 51 76 127 12"(51mm) Pipe OD 32 51 64 102 38 51 64 102 38 51 64 102 38 51 76 127 12"(51mm) Pipe OD 32 51 64 102 38 51 64 102 38 51 64 102 38 51 76 127 12"(51mm) Pipe OD 38 51 64 102 38 51 64 102 38 51 76 127 12"(51mm) Pipe OD 38 51 64 102 38 51 76 127 38 51 76 127 51 64 76 127 12"(51mm) Pipe OD 38 51 76 127 38 51 76 127 51 64 76 127 12"(51mm) Pipe OD 38 51 76 127 38 51 76 127 51 64 76 127 12"(51mm) Pipe OD 32 51 64 102 38 51 76 127 51 64 76 127 12"(51mm) Pipe OD 32 51 64 102 38 51 76 127 51 64 76 127 51 64 102 12"(51mm) Pipe OD 32 51 64 102 32 51 64 102 38 51 76 127 51 64 76 127 51 64 102 12"(51mm) Pipe OD 32 51 64 102 32 51 64 102 38 51 76 127 51 64 102 38 51 64 102 38 51 64 102 38 51 76 127 51 64			38	64	102	32	51	64	102	38	51	64	102	38	51	64	102
10"(254mm) Pipe OD   32   51   64   102   38   51   64   102   38   51   76   127   51   51   76   127				64					102				102				
12" (305mm) Pipe OD 32 51 64 102 38 51 64 127 38 51 76 127 51 64 76 127    LineTemp: -20°C																	
Line Temp: -20°C  1" (25mm) Pipe OD																	
1"(25mm) Pipe OD       25       32       51       76       32       32       51       76       32       38       51       76       32       38       51       76       32       38       51       76       32       38       51       76       32       38       51       76       32       38       51       76       32       38       51       64       102       38       51       64       102       38       51       64       102       38       51       64       102       38       51       64       102       38       51       64       102       38       51       64       102       38       51       64       102       38       51       64       102       38       51       64       102       38       51       64       102       38       51       64       102       38       51       64       102       38       51       64       102       38       51       64       102       38       51       64       102       38       51       76       127       51       64       76       127       51       64       76       127       51	12" (305mm) Pipe OD	32	51	64	102	38	51	64	127	38	51	76	127	51	64	76	127
2"(51mm) Pipe OD 32 38 51 76 32 38 51 102 32 51 64 102 38 51 64 102 38 51 64 102 38 51 64 102 38 51 64 102 38 51 64 102 38 51 64 102 38 51 64 102 38 51 64 102 38 51 64 102 38 51 64 102 38 51 64 102 38 51 64 102 38 51 76 102 5"(127mm) Pipe OD 32 51 64 102 38 51 64 102 38 51 64 102 38 51 64 102 38 51 76 127 6"(152mm) Pipe OD 38 51 64 102 38 51 64 102 38 51 76 127 51 64 76 127 10"(254mm) Pipe OD 38 51 64 127 38 51 76 127 51 64 76 127 12"(305mm) Pipe OD 38 51 76 127 38 51 76 127 51 64 102 127 12"(305mm) Pipe OD 38 51 76 127 38 51 76 127 51 64 76 127 12"(305mm) Pipe OD 32 38 51 76 127 38 51 76 127 51 64 76 127 12"(254mm) Pipe OD 32 38 51 76 127 38 51 76 127 51 64 76 127 12"(254mm) Pipe OD 32 38 51 76 127 38 51 76 127 51 64 102 127 12"(254mm) Pipe OD 32 38 51 64 102 32 51 64 102 38 51 64 102 3																	
3" (76mm) Pipe OD 32 38 64 102 38 38 64 102 38 38 51 64 102 38 51 64 102 38 51 64 102 38 51 64 102 38 51 64 102 38 51 76 102 5" (127mm) Pipe OD 32 51 64 102 38 51 64 102 38 51 64 102 38 51 76 127 6" (152mm) Pipe OD 38 51 64 102 38 51 64 102 38 51 76 127 51 64 76 127 10" (254mm) Pipe OD 38 51 64 102 38 51 76 127 51 64 102 127 12" (305mm) Pipe OD 38 51 76 127 38 51 76 127 51 64 76 127 12" (305mm) Pipe OD 38 51 64 102 38 51 76 127 51 64 76 127 12" (305mm) Pipe OD 38 51 64 102 38 51 76 127 51 64 76 127 12" (305mm) Pipe OD 38 51 64 102 38 51 76 127 51 64 76 127 12" (305mm) Pipe OD 32 38 51 76 127 38 51 76 127 51 64 76 127 51 64 102 127 12" (305mm) Pipe OD 32 51 64 102 32 51 64 102 38 51 76 127 51 64 102 38 51 64 102 127 12" (305mm) Pipe OD 32 51 64 102 32 51 64 102 38 51 64 76 127 51 64 102 127 51 64 102 127 51 64 102 127 51 64 10	1" (25mm) Pipe OD	25	32	51	76	32	32	51	76	32	38	51	76	32	38	51	76
4" (102mm) Pipe OD       32       51       64       102       38       51       64       102       38       51       64       102       38       51       64       102       38       51       64       102       38       51       64       102       38       51       64       102       38       51       64       102       38       51       64       102       38       51       64       102       38       51       64       102       38       51       64       76       127         6" (152mm) Pipe OD       38       51       64       102       38       51       64       102       38       51       76       127       51       64       76       127         8" (203mm) Pipe OD       38       51       64       102       38       51       76       127       38       51       76       127       51       64       76       127         10" (254mm) Pipe OD       38       51       76       127       38       51       76       127       51       64       76       127       51       64       76       127       51       64       76       <		32	38	51	76	32	38	51	102	32	51	64	102	38	51	64	102
5" (127mm) Pipe OD       32       51       64       102       38       51       64       102       38       51       64       102       38       51       64       102       38       51       64       102       38       51       64       102       38       51       64       102       38       51       64       76       127         8" (203mm) Pipe OD       38       51       64       102       38       51       76       127       38       51       76       127         10" (254mm) Pipe OD       38       51       64       127       38       51       76       127       51       64       76       127         10" (254mm) Pipe OD       38       51       76       127       38       51       76       127       51       64       76       127       51       64       76       127       51       64       102       127       127       127       51       64       76       127       51       64       76       127       51       64       76       127       51       64       76       127       51       64       76       127       51	3" (76mm) Pipe OD	32	38	64	102	38	38	64	102	38	51	64	102	38	51	64	102
6" (152mm) Pipe OD 38 51 64 102 38 51 64 102 38 51 76 127 51 64 76 127 8" (203mm) Pipe OD 38 51 64 102 38 51 76 127 38 51 76 127 51 64 76 127 10" (254mm) Pipe OD 38 51 64 127 38 51 76 127 51 64 76 127 51 64 102 127 12" (305mm) Pipe OD 38 51 76 127 38 51 76 127 51 64 76 127 51 64 102 127 12" (305mm) Pipe OD 32 38 51 76 32 38 51 76 127 51 64 102 127 12" (25mm) Pipe OD 32 51 64 102 32 51 64 102 32 51 64 102 38 51 64 102 38 51 64 102 38 51 64 102 38 51 64 102 38 51 64 102 38 51 64 102 38 51 76 127 51 64 76 127 51 64 76 127 51 64 76 127 5" (102mm) Pipe OD 38 51 64 102 38 51 64 102 38 51 64 102 38 51 76 127 51 64 76 127 51 64 76 127 5" (127mm) Pipe OD 38 51 64 102 38 51 64 102 38 51 76 127 51 64 76 127 5" (127mm) Pipe OD 38 51 64 102 38 51 76 127 51 64 76 127 5" (152mm) Pipe OD 38 51 76 127 38 51 76 127 51 64 76 127 51 64 76 127 51 64 76 127 5" (152mm) Pipe OD 38 51 76 127 51 64 76	4" (102mm) Pipe OD			64				64	102				102		51	76	
8" (203mm) Pipe OD 38 51 64 102 38 51 76 127 38 51 76 127 51 64 76 127 10" (254mm) Pipe OD 38 51 64 127 38 51 76 127 51 51 64 102 127 12" (305mm) Pipe OD 38 51 76 127 38 51 76 127 51 64 76 127 51 64 102 127 12" (305mm) Pipe OD 38 51 76 32 38 51 76 127 51 64 76 127 51 64 102 127 12" (25mm) Pipe OD 32 38 51 76 32 38 51 76 32 38 51 76 32 38 51 76 32 38 64 102 2" (51mm) Pipe OD 32 51 64 102 32 51 64 102 38 51 64 76 127 51			51	64	102			64	102			64	102				
10" (254mm) Pipe OD 38 51 64 127 38 51 76 127 51 51 76 127 51 64 102 127 12" (305mm) Pipe OD 38 51 76 127 38 51 76 127 51 64 76 127 51 64 102 127 12" (305mm) Pipe OD 32 38 51 76 32 38 51 76 32 38 51 76 32 38 51 76 32 38 64 102 2" (51mm) Pipe OD 32 51 64 102 32 51 64 102 38 51 64 102 38 51 64 102 38 51 64 102 38 51 64 102 38 51 64 102 38 51 64 102 38 51 64 102 38 51 64 102 38 51 64 102 38 51 64 102 38 51 64 102 38 51 64 102 38 51 64 102 38 51 64 102 38 51 64 102 38 51 64 102 38 51 64 102 38 51 64 102 38 51 76 127 5" (127mm) Pipe OD 38 51 64 102 38 51 64 102 38 51 64 102 38 51 64 76 127 5" (127mm) Pipe OD 38 51 76 127 38 51 76 127 51 64		38	51	64	102	38	51	64	102	38	51	76	127	51	64	76	127
12" (305mm) Pipe OD     38     51     76     127     38     51     76     127     51     64     76     127     51     64     102     127       Line Temp: -25°C       1" (25mm) Pipe OD     32     38     51     76     32     38     51     76     32     38     51     76     32     38     64     102       2" (51mm) Pipe OD     32     51     64     102     32     51     64     102     38     51     64     102       3" (76mm) Pipe OD     38     51     64     102     38     51     64     102     38     51     64     102       4" (102mm) Pipe OD     38     51     64     102     38     51     64     102     38     51     76     127       5" (127mm) Pipe OD     38     51     64     102     38     51     76     127     51     64     76     127       5" (152mm) Pipe OD     38     51     76     127     38     51     76     127     51     64     76     127     51     64     76     127     51     64     76     127     51     64     76 </td <td></td> <td>64</td> <td></td> <td></td>															64		
Line Temp: -25°C     32     38     51     76     32     38     51     76     32     38     51     76     32     38     51     76     32     38     51     76     32     38     64     102       2" (51mm) Pipe OD     32     51     64     102     32     51     64     102     38     51     64     102     38     51     64     102       3" (76mm) Pipe OD     38     51     64     102     38     51     64     102     38     51     64     102       4" (102mm) Pipe OD     38     51     64     102     38     51     64     102     38     51     76     127       5" (127mm) Pipe OD     38     51     64     102     38     51     76     127     51     64     76     127     51     64     76     127       6" (152mm) Pipe OD     38     51     76     127     38     51     76     127     51     64     76     127     51     64     76     127     51     64     76     127     51     64     76     127     51     64     76     127     51								76		51	51		127	51	64	102	
1" (25mm) Pipe OD     32     38     51     76     32     38     51     76     32     38     51     76     32     38     64     102       2" (51mm) Pipe OD     32     51     64     102     32     51     64     102     38     51     64     102       3" (76mm) Pipe OD     38     51     64     102     38     51     64     102     38     51     64     102       4" (102mm) Pipe OD     38     51     64     102     38     51     64     102     38     51     76     127       5" (127mm) Pipe OD     38     51     64     102     38     51     76     127     51     64     76     127       6" (152mm) Pipe OD     38     51     76     127     38     51     76     127     51     64     76     127     51     64     76     127       8" (203mm) Pipe OD     38     51     76     127     51     64     76     127     51     64     76     127     51     64     76     127     51     64     76     127     51     64     76     127     51     64 <td< td=""><td>12" (305mm) Pipe OD</td><td>38</td><td>51</td><td>76</td><td>127</td><td>38</td><td>51</td><td>76</td><td>127</td><td>51</td><td>64</td><td>76</td><td>127</td><td>51</td><td>64</td><td>102</td><td>127</td></td<>	12" (305mm) Pipe OD	38	51	76	127	38	51	76	127	51	64	76	127	51	64	102	127
2" (51mm) Pipe OD       32       51       64       102       32       51       64       102       38       51       64       102         3" (76mm) Pipe OD       38       51       64       102       38       51       64       102       38       51       64       102         4" (102mm) Pipe OD       38       51       64       102       38       51       64       102       38       51       76       127         5" (127mm) Pipe OD       38       51       64       102       38       51       76       127       51       64       76       127         6" (152mm) Pipe OD       38       51       76       127       38       51       76       127       51       64       76       127       51       64       76       127       51       64       76       127       51       64       76       127       51       64       76       127       51       64       76       127       51       64       76       127       51       64       76       127       51       64       76       127       51       64       76       127       51       6																	
3" (76mm) Pipe OD     38     51     64     102     38     51     64     102     38     51     64     102     38     51     64     102     38     51     64     102     38     51     64     102     38     51     76     127       5" (127mm) Pipe OD     38     51     64     102     38     51     76     127     51     64     76     127       6" (152mm) Pipe OD     38     51     76     127     38     51     76     127     51     64     76     127     51     64     76     127       8" (203mm) Pipe OD     38     51     76     127     51     64     76     127     51     64     76     127     51     64     76     127     51     64     76     127     51     64     76     127     51     64     76     127     51     64     76     127     51     64     76     127     51     64     76     127     51     64     76     127     51     64     76     127     51     64     76     127     51     64     76     127     51     64     76 <td></td> <td>32</td> <td>38</td> <td>51</td> <td>76</td> <td>32</td> <td>38</td> <td>51</td> <td>76</td> <td>32</td> <td>38</td> <td>51</td> <td>76</td> <td>32</td> <td>38</td> <td>64</td> <td>102</td>		32	38	51	76	32	38	51	76	32	38	51	76	32	38	64	102
4" (102mm) Pipe OD       38       51       64       102       38       51       64       102       38       51       76       127       51       64       76       127         5" (127mm) Pipe OD       38       51       64       102       38       51       76       127       51       64       76       127         6" (152mm) Pipe OD       38       51       76       127       38       51       76       127       51       64       76       127       51       64       76       127       51       64       76       127       51       64       76       127       51       64       76       127       51       64       76       127       51       64       76       127       51       64       76       127       51       64       76       127       51       64       76       127       51       64       76       127       51       64       76       127       51       64       76       127       51       64       76       127       51       64       76       127       51       64       76       127       51       64       76		32	51	64		32	51	64	102	38	51	64	102	38	51	64	102
5" (127mm) Pipe OD     38     51     64     102     38     51     76     127     51     64     76     127     51     64     76     127       6" (152mm) Pipe OD     38     51     76     127     38     51     76     127     51     64     76     127     51     64     76     127       8" (203mm) Pipe OD     38     51     76     127     51     64     76     127     51     64     76     127     51     64     76     127     51     64     102     127     51     64     102     127     51     64     102     127     51     64     102     127     51     64     102     127     51     64     102     127     51     64     102     127     51     64     102     127     51     64     102     127     51     64     102     127     51     64     102     127     51     64     102     127     51     64     102     127     51     64     102     127     51     64     102     127     51     64     102     127     51     64     102     127     5		38		64		38	51	64									
6" (152mm) Pipe OD 38 51 76 127 38 51 76 127 51 64 76 127 51 64 76 127 8" (203mm) Pipe OD 38 51 76 127 51 64 76 127 51 64 76 127 51 64 102 127 10" (254mm) Pipe OD 38 51 76 127 51 64 76 127 51 64 102 127 51 64 102 127				64			51	64	102	38		76	127			76	127
6" (152mm) Pipe OD 38 51 76 127 38 51 76 127 51 64 76 127 51 64 76 127 8" (203mm) Pipe OD 38 51 76 127 51 64 76 127 51 64 76 127 51 64 102 127 10" (254mm) Pipe OD 38 51 76 127 51 64 76 127 51 64 102 127 51 64 102 153		38					51	76	127	51		76			64	76	127
10" (254mm) Pipe OD 38 51 76 127 51 64 76 127 51 64 102 127 51 64 102 127 51 64 102 153										51					64	76	
			51							51				51	64	102	127
12" (305mm) Pipe OD 51 51 76 127 51 64 76 127 51 64 102 153 51 64 102 153													127		64		
, , , , , , , , , , , , , , , , , , , ,	12" (305mm) Pipe OD	51	51	76	127	51	64	76	127	51	64	102	153	51	64	102	153

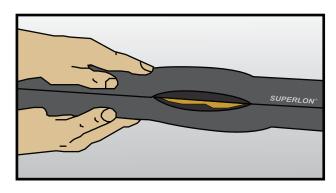
At Superlon condensation prevention is our utmost priority. As a safety to prevent condensation, calculated figures are based on dew point temperature adding +0.5°C with a external surface coefficient of 9 W/M2-K. Thicknesses should be recalculated if there is any use of jacketing such as aluminium as the external surface coefficient will be changed.

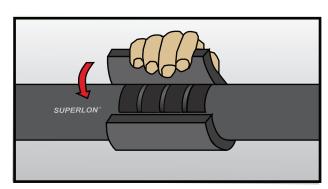
Note: Recommended thicknesses are to be used as a guide. Results are obtained under typical conditions. Superlon does not guarantee it will be prevent condensation. Other factors such as proper installation is crucial in condensation prevention. Calculations are based on condensation prevention only and does not take into account heat(cold) loss. Please consult with our technical staff for more precise calculations or if the installation environment differs.

### **INSTALLATION GUIDE**









Allow 3-5 minutes for glue to dry while holding the sides/ends together.

Superlon glue works best when both sides are dry.

### Once dry, prepare foam tape and apply foam tape to the joined area.

Do not apply too much pressure when applying foam tape. Do not stretch. Make sure the gap is completely sealed will enhance insulation performance.

Correction Installation will improve the lifespan and performance of the insulation:

- Using correct thickness
- Installing the insulation material correctly.

Before you install, determine the thickness of your insulation materials based of 5 factors:

- Ambient temperature
- Relative humidity
- Pipe size (Outer diameter of pipe)
- Line temperature
- Medium (Gas or Liquid)

### **Good Installation**

Joining area sealed with foam tape to avoid temperature loss through contact with air.



### **Bad Installation**

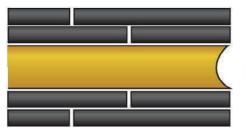
Two copper tubes inserted into one insulation tube, may cause damage to the copper tubes due to friction. Joining area sealed tightly with duct tape causing damage to the foam structure, reducing the insulation thickness and may lead to condensation.





### **SUPERLON TIPS**

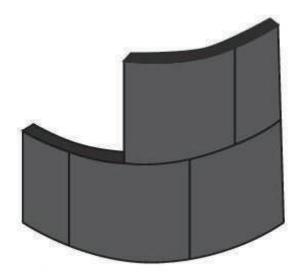
### **DOUBLE LAYERING OF PIPEWORK**





When applying layers of Superlon tube together (usually for applications that need more than 2", 51mm thickness) always make sure that all seams and butt joints do not correspond, so that the lower joints can be fully protected

#### SHEET INSULATION FOR FLAT AND CURVED SURFACES



Superlon sheet is suitable for all ducts, vessels and tanks. When installing, draw up a work schedule of the sizes needed to complete the job and calculate the most efficient combination of rolls needed for the job.

Always cut oversize. When applying adhesive, always apply to the inner surface of the sheet as well as the metal surfaces that need to be insulated. This ensures that there is a full bond between the surfaces.

Superlon sheet is also ideal for insulating irregular shapes. Chalk lines drawn on the metal surface can be directly transferred onto Superlon's sheet. Press firmly against the marked surface for an accurate image of the outline.

### **SUPERLON FOAM TAPE TIPS**



Superlon foam tape is used to complement Superlon tube and Superlon sheet to fill gaps in fittings, achieve neat, tight joints at brackets, flanges and on ductwork and vessels. It is useful for quick and efficient repair to damage on existing insulated systems. Superlon foam tape is also a solution to insulating short lengths of pipework and fitting in cramped spaces and hard to reach areas.

Upon installation, it is recommended to wrap the tape with a 50% overlap to ensure proper sealing. Use as many layers as necessary to meet the specified wall thickness. When insulating valves, fittings and irregular shapes, cut the tape to the required length and mould to suit the particular shape of the object to be insulated. Ensure that all surface areas are fully insulated without any gap an apply further layers to meet the thickness required. Always ensure that Superlon foam tape is never stretched during application.

### **Distributor**

