



# ***SUPERLON***<sup>®</sup>

## **Quality NBR Insulation**



## Insulation Specification List

Values					Test Methods
Material	Nitrile Foamed Rubber				
Cell Structure	Closed Cell				
Density	40kg/m³ -70kg/m³				
Service Temperature	-50°C to 105°C (85°C for flat surfaces)				
Surface Spread of Flames	Class 1				BS 476 Part 7
Fire Performance	Class 0				BS 476 Part 6
Fire Propagation	Total Index (I) ≤ 12 Sub Index (i <sub>1</sub> ) ≤ 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 UL94
Reaction to Fire	V-0, Self Extinguishing, Does not Drip				JIS K 6911
Oxygen Index	≥ 33%				KS M6962
Thermal Conductivity	Mean Temp	0°C	20°C	40°C	ASTM C518
	W/m·K	≤ 0.032	≤ 0.034	≤ 0.036	ASTM C177
Water Vapour Permeability	≤0.89 x 10 <sup>-14</sup> kg/Pa.m.s				ASTM E96
Water Absorption by Volume	μ ≥ 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
Acoustic Performance based on 1" (25mm) thickness	Octave Frequency	Sound Absorption Coefficient α			
	125 Hz	0.13			
	250 Hz	0.22			
	500 Hz	0.53			ASTM C423
	1000 Hz	0.66			
	2000 Hz	0.61			
	4000 Hz	0.68			
	NRC	0.50			
Ozone Resistance	Good				ASTM G155
Corrosion Resistance	No Corrosion				
Environment	Dust & Fibre Free, CFC Free, Zero ODP & GWP Certified by SGBC (Singapore) and DCL (Dubai) Green Label Compliant Formaldehyde Free				ASTM D5116
	Low Volatile Organic Compounds (VOCs)				JIS A 1901
	Low Smoke Toxicity				JIS K 7217
	RoHS Compliant				RoHS
	No Fungal Growth				2011/65/EU
	Negligible Bacterial Growth				ASTM G21
					ASTM E2180



Insulation Glue

Size	Packing
1 Litre	15 Cans/ Ctn
3.36 Litre	6 Cans/ Ctn



Paint

Size	Packing
5 Litres	4 Cans/ Ctn
1 Litre	12 Cans/ Ctn



Foam/ Gasket Tape

Tape Size	Packing
Foam Tape 3mm x 48 mm x 30ft	24 Pcs/ Ctn
Gasket Tape 5mm x 15mm x 10M	72 Pcs/ Ctn

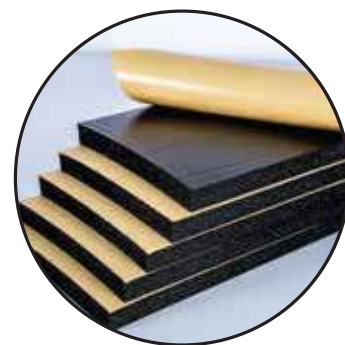
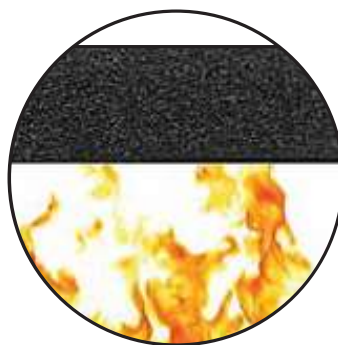
# ***SUPERLON***<sup>®</sup> *Quality NBR Insulation*

## **25/50**

Superlon conforms with National Fire Protection Agency (NFPA) 90A Standard for the Installation of Air-Conditioning and Ventilation Systems and 90B Standard for the Installation for Warm Air Heating and Air-Condition Systems.

Superlon is rated 25/50 as tested for ASTM E84. Furthermore, Superlon's insulation is also approved under the supervision of Factory Mutual (FM) for fire performance.

Superlon insulation materials self-extinguish when the fire source is removed. Furthermore, Superlon insulation materials do not drip but char when exposed to fire under lab testing conditions.



## **Superlon FM Approved**

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

FM Approvals use scientific research and use real world tests such as pipe chase test and room test. 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.

At Superlon, we ensure all products are manufactured with the highest standard.



## **Accessories**



Aluminium Rubber



Colour Product



Adhesive Rubber



## Insulation Pipes (pieces per carton box)

Internal Diameter		Insulation Wall Thickness							
		1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Inches	mm	6	10	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	
5 1/4"	133		10	9	6	3	3	3	
5 1/2"	140		10	8	6	3	3	3	
6"	152		10	8	6	3	3	3	
6 1/4"	159		9	8	6	3	3		
6 1/2"	165		9	8	6	3	3		

## Insulation Rolls

Thickness		Size
Inches	mm	Metres
1/4"	6	1.22 x 24.0
3/8"	10	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

Thickness		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"	10	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
3/4"	19	1.22 x 0.914	4' x 3'	14
1"	25	1.22 x 0.914	4' x 3'	10
1 1/4"	32	1.22 x 0.914	4' x 3'	8
1 1/2"	38	1.22 x 0.914	4' x 3'	7
2"	51	1.22 x 0.914	4' x 3'	5

- 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 Superlon sales for more information.

## Superlon Tips:

Correct installation will improve the lifespan and performance of the insulation. Key factors of good insulation:

- Using correct thickness
- Installing the insulation material correctly

Before you install - Determine the thickness of the insulation material based on five factors:

1. Ambient temperature
2. Relative humidity
3. Pipe Size (outer diameter of pipe)
4. Line temperature
5. Medium (gas or liquid)

For example:

	Piping Line Surface Temperature		
	15°C	5°C	-18°C
<b>Normal Conditions</b> Based on the weather conditions experienced in tropical regions Maximum severity of 29°C and RH of 78%	1/2" (13 mm)	1" (25mm)	1 1/2" (38mm)
<b>Severe Conditions</b> Confined and poorly ventilated areas with excessive moisture Maximum severity of 35°C and RH of 85%	1" (25mm)	1 1/2" (38mm)	2" (51mm)
<b>Mild Conditions</b> Well ventilated, low humidity conditions Maximum severity of 26°C and RH of 70%	3/8" (10mm)	1/2" (13mm)	1" (25mm)



### Get our Superlon Thickness Calculation App

For more tips, installing methods and to determine correct thickness, please contact your Superlon advisor



### Manufactured by

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