# **MADE IN MALAYSIA**

# SUPERLON®

**Quality NBR Insulation** 



**SUPERLON® CLASS 1** 

# **NEW AND IMPROVED**

Control condensation and reduce energy costs

- Low thermal conductivity
- > Low water vapour permeability
- > Easy to install and fabricate



CFC Free, Dust and Fibre Free

# SUPERLON CLASS 1 product description

Superlon Class 1 insulation is a flexible elastomeric nitrile foamed rubber engineered and designed specifically to control condensation and effectively prevents energy loss. Its main uses are for insulating pipeworks for air conditioning ductings, chilled water lines and refrigerated pipes. Superlon Class 1 can also be used for hot water and heating systems to prevent heat loss.

With more than 20 years of experience in manufacturing nitrile foam rubber, Superlon delivers utmost quality along with prompt reliable services.

### **Management Systems**

Our on-going quality assessments for ISO 9001 quality management systems and ISO 14001 environmental management systems ensure that we meet customer requirements.

# **Eco Friendly**

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

CFC FREE

DUST & FIBRE FREE

LOW VOCs

# 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 does not trap dust.

# **Health Friendly**

Superlon is formaldehyde free and also low VOC ensuring that our products are not hazardous to health and safe for buildings.

Superlon also does not contain and dusts and fibres even when cutting into shapes and fittings. This safe guards any symptoms regarding indoor air quality.

# **Superion Insulation Characteristics**

# Closed Cell Structure

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

### **Low Water Absorption**

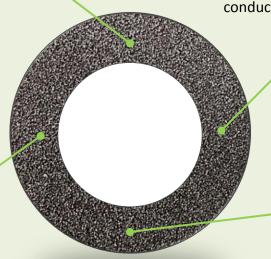
Low water absorption of ≤ 0.2% ensures long term thermal conductivity stability so that it can continue to conserve energy and prevent surface condensation.

# **Low Thermal Conductivity**

Superlon is the best energy saving choice with a low thermal conductivity of  $\lambda$  20°c  $\leq$  0.036 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  $\mu \ge 7,000$ .



# specifications

# **SUPERLON** CLASS 1

### **Technical Data**

		Test Methods			
Material	Nitrile Foamed R				
Cell Structure	Closed Cell				
Density	40kg/m³ -70kg/m	1 <sup>3</sup>			
Service Temperature	-50°C to 105°C (8	85°C for flat su			
Surface Spread of Flames	Class 1		BS 476 Part 7		
Reaction to Fire	Self-Extinguishing	g, Does not Dri			
Thermal Conductivity	Mean Temp	ASTM C518			
	W/m·K				
	Btu • in/hr • ft²	≤ 0.24			
Water Vapour Permeability	$\leq 2.9 \times 10^{-14} \text{ kg/l}$	Pa.m.s	ASTM E96		
	μ ≥ 7000				
Water Absorption by Volume	≤ 0.2%		ASTM C209		
Ozone Resistance	Good				
Corrosion and Mould Resistance	No Corrosion				
Health and Environment	Dust & Fibre Free	e and CFC Free	GWP		

# **Insulation Pipe (pieces per Carton)**

Diameter         1/4"         3/8"         1/2"         3/4"         1"         11/4"         1 1/2"         2"           Inches         mm         6         10         13         19         25         32         38         50           1/4"         6         250         156         110         49         30         30         33         33         30	Inter	nal	Insulation Wall Thickness							
1/4"     6     250     156     110     49     30       3/8"     10     200     120     90     42     30       1/2"     13     150     100     72     36     24     12     9     6       5/8"     16     120     90     63     36     20     12     9     6       3/4"     19     100     72     36     30     20     12     9     6       7/8"     22     90     64     48     25     18     9     9     6       1"     25     80     56     42     20     16     9     9     9     6       11/8"     28     72     49     36     20     16     9     9     6       11/4"     32     56     42     30     20     15     9     9     4       13/8"     35     48     36     30     16     12     9     9     4       11/2"     38     42     34     25     16     12     9     8     4       15/8"     42     30     25     16     12     9     8     6     4       2"5	Diame	eter	1/4"	3/8"   1/2"   3/4'		3/4"	1"	1 1/4"	1 1/2"	2"
3/8"     10     200     120     90     42     30     90     42     30     90     65     1/2"     13     150     100     72     36     24     12     9     6     6     5/8"     16     120     90     63     36     20     12     9     6     6     3/4"     19     100     72     56     30     20     12     9     6     6     7/8"     22     90     64     48     25     18     9     9     6     6     1"     25     80     56     42     20     16     9     9     6     6     11/8"     28     72     49     36     20     16     9     9     6     6     11/4"     32     56     42     30     20     15     9     9     4     13/8"     35     48     36     30     16     12     9     9     4     11/2"     38     42     34     25     16     12     9     8     4           1 /2"         38         42         34         25         16         12         9         8         4           1 /2"         38         42	Inches	mm	6	10	13	19	25	32	38	50
1/2"       13       150       100       72       36       24       12       9       6         5/8"       16       120       90       63       36       20       12       9       6         3/4"       19       100       72       56       30       20       12       9       6         7/8"       22       90       64       48       25       18       9       9       6         1"       25       80       56       42       20       16       9       9       6         1 1/8"       28       72       49       36       20       16       9       9       6         1 1/4"       32       56       42       30       20       15       9       9       4         1 3/8"       35       48       36       30       16       12       9       9       4         1 1/2"       38       42       34       25       16       12       9       8       4         1 5/8"       42       30       25       16       12       9       8       6       4         2"       51<		6	250	156	110	49	30			
5/8"       16       120       90       63       36       20       12       9       6         3/4"       19       100       72       56       30       20       12       9       6         7/8"       22       90       64       48       25       18       9       9       6         1"       25       80       56       42       20       16       9       9       6         11/8"       28       72       49       36       20       16       9       9       6         11/4"       32       56       42       30       20       15       9       9       4         13/8"       35       48       36       30       16       12       9       9       4         11/2"       38       42       34       25       16       12       9       8       4         15/8"       42       30       25       16       12       9       8       4         17/8"       47       28       20       15       10       8       6       4         21/8"       54       21       20 <td></td> <td>10</td> <td>200</td> <td>120</td> <td>90</td> <td>42</td> <td>30</td> <td></td> <td></td> <td></td>		10	200	120	90	42	30			
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3/4" 19 100 72 56 30 20 12 9 6  7/8" 22 90 64 48 25 18 9 9 6  1" 25 80 56 42 20 16 9 9 6  1 1/8" 28 72 49 36 20 16 9 9 6  1 1/4" 32 56 42 30 20 15 9 9 4  1 3/8" 35 48 36 30 16 12 9 8 4  1 1/2" 38 42 34 25 16 12 9 8 4  1 1/8" 47 28 20 15 10 8 6 4  2" 51 24 20 12 9 8 4  1 1/8" 54 21 20 12 9 8 6 4  2 1/4" 57 21 20 12 9 8 6 4  2 1/4" 57 21 20 12 9 8 6 6 3  2 1/2" 64 18 15 9 8 6 6 6  3 2 1/2" 64 18 15 9 8 6 6 6 3  2 1/2" 64 18 15 9 8 6 6 6 3  2 1/8" 73 18 13 9 8 6 6 6 3  2 1/8" 73 18 13 9 8 4 4 4 3  3 1/8" 80 16 12 8 6 4 4  4 102 14 12 6 6 5  4 1/4" 108 14 12 6 6 5  4 1/4" 108 14 12 6 6 5  4 1/4" 108 14 12 6 6 5  4 1/2" 114 14 14 12 6 6 5  4 1/2" 114 14 14 12 6 6 5  5 1/4" 133 10 9 6 6 3	5/8"	16	120	90	63	36	20	12	9	6
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1 3/8"       35       48       36       30       16       12       9       9       4         1 1/2"       38       42       34       25       16       12       9       8       4         1 5/8"       42       30       25       16       12       9       8       4         1 7/8"       47       28       20       15       10       8       6       4         2"       51       24       20       12       9       8       6       4         2 1/8"       54       21       20       12       9       8       6       4         2 1/8"       54       21       20       12       9       8       6       4         2 1/8"       57       21       20       12       9       8       6       4         2 3/8"       60       20       18       12       9       8       6       6       3         2 1/2"       64       18       15       9       8       6       6       3         2 7/8"       73       18       13       9       8       4       4       3	1 1/8"	28	72	49	36	20	16	9	9	6
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3 1/8"     80     16     12     8     6     4     4       3 1/2"     89     16     12     8     6     4     4       4"     102     14     12     6     6       4 1/8"     105     14     12     6     5       4 1/4"     108     14     12     6     5       4 1/2"     114     14     12     6     4       5"     127     10     9     6     4       5 1/8"     130     10     9     6     3       5 1/4"     133     10     9     6     3	2 7/8"	73		18	13	9	8	4	4	3
3 1/2"     89     16     12     8     6     4     4       4"     102     14     12     6     6       4 1/8"     105     14     12     6     5       4 1/4"     108     14     12     6     5       4 1/2"     114     14     12     6     4       5"     127     10     9     6     4       5 1/8"     130     10     9     6     3       5 1/4"     133     10     9     6     3	3"	76		18	12	8	8	4	4	3
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4 1/8"     105     14     12     6     5       4 1/4"     108     14     12     6     5       4 1/2"     114     14     12     6     4       5"     127     10     9     6     4       5 1/8"     130     10     9     6     3       5 1/4"     133     10     9     6     3	3 1/2"	89		16	12		6	4	4	
4 1/8"     105     14     12     6     5       4 1/4"     108     14     12     6     5       4 1/2"     114     12     6     4       5"     127     10     9     6     4       5 1/8"     130     10     9     6     3       5 1/4"     133     10     9     6     3	4"	102		14	12	6	6			
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		133		10	9					
5 1/2"   140   10   8   6   3	5 1/2"	140		10	8	6	3			

# **Continuous Rolls**

Thickness		Size					
Inches	mm	Feet	Metres				
1/8"	3	4' x 30'	1.22 x 9.14				
1/4"	6	4' x 30'	1.22 x 9.14				
3/8"	10	4' x 30'	1.22 x 9.14				
1/2"	13	4' x 30'	1.22 x 9.14				
5/8"	16	4' x 30'	1.22 x 9.14				
3/4"	19	4' x 30'	1.22 x 9.14				
1"	25	4' x 30'	1.22 x 9.14				
1 1/4"	32	3.29' x 30'	1 x 9.14				
1 1/2"	38	3.29' x 30'	1 x 9.14				
2"	50	3.29' x 6.57'	1 x 2				

# **Insulation Pre-cut Sheets**

Thickness			Pcs	
Inches	mm	Feet	Metres	Carton
1/8"	3	4' x 3'	1.22 x 0.914	80
1/4"	6	4' x 3'	1.22 x 0.914	40
3/8"	10	4' x 3'	1.22 x 0.914	26
1/2"	13	4' x 3'	1.22 x 0.914	20
5/8"	16	4' x 3'	1.22 x 0.914	16
3/4"	19	4' x 3'	1.22 x 0.914	14
1"	25	4' x 3'	1.22 x 0.914	10
1 1/4"	32	4' x 3'	1.22 x 0.914	8
1 1/2"	38	4' x 3'	1.22 x 0.914	7

- Can be customised to single or double skin
- Adhesive and aluminium jacketing available in the same sizes as above
- Sizes can be customised, contact Superlon sales for more information

# installation tips

# **SUPERLON® CLASS 1**

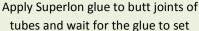
### **Tips**

- Superlon glue must be applied to both ends of the joining area and allowed to dry before joining the insulation material together.
- Be gentle to avoid deformation of cells as this could affect the performance of the insulation
- It is always good to seal joining areas with foam tape to avoid temperature loss through contact with air.
- Only use one insulation tube per pipe.
   Multiple pipes in one tube allow excess air around the pipe and higher chance of losing temperature.

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

### **Good Installation**







Press the butt joints firmly together ensuring that it is properly sealed



Wrap foam tape around the glued joints but be sure not to stretch the tape



Completed look

### **Bad Installation**



Two copper pipes in one tube and wrapping PVC tape along the joints is a major cause in condensation issues.

# Recommended Thickness (mm) Guide for Condensation Control

Ambient Temperature	26°C			30°C			35°C					
Relative Humidity	75%	80%	85%	90%	75%	80%	85%	90%	75%	80%	85%	90%
Cool water +18°C												
Pipe Up to 38mm OD	6	10	10	19	10	10	13	25	10	13	19	32
Pipe 42 - 89mm OD	6	10	10	19	10	13	19	25	10	19	25	38
Pipe above 102mm OD	10	10	13	25	10	13	19	32	13	19	25	38
Chilled Water +5°C												
Pipe Up to 38mm OD	13	19	25	38	19	19	32	51	19	25	32	51
Pipe 42 - 89mm OD	19	19	32	51	19	25	32	51	19	25	38	64
Pipe above 102mm OD	19	25	32	51	19	25	32	51	25	32	38	64
Refrigeration 0°C												
Pipe Up to 38mm OD	19	25	32	51	19	25	32	51	25	25	38	64
Pipe 42 - 89mm OD	19	25	32	51	25	32	38	64	25	32	38	64
Pipe above 102mm OD	25	25	38	64	25	32	38	64	25	32	50	76
Refrigeration -15°C												
Pipe Up to 38mm OD	25	32	51	64	25	32	51	76	32	38	51	76
Pipe 42 - 89mm OD	32	38	51	76	32	38	51	89	32	51	64	89
Pipe above 102mm OD	32	38	51	89	32	51	64	89	38	51	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 an external surface coefficient of 9 W/M2-K. Thicknesses should be recalculated if there is use of jacketing such as aluminium as the external coefficient will be changed.

Note: Recommended thicknesses are to be used as a guide. Results are obtained under typical conditions. Superion does not guarantee it will be prevent condensation. Other factors such as proper installation is crucial in condensation prevention. Please consult with our technical staff for more precise calculations.



SUPERLON
Made in Malaysia by:
Superlon Worldwide Sdn. Bhd.

**Distributor:** 



Lot 2736 Jalan Raja Nong 41200 Klang, Selangor Darul Ehsan, Malaysia Web: www.superlon.com.my | Email: inquiry@superlon.com.my Tel: +603 5161-7778 | Fax: +603 5162-7778