

SUPERMAX FR

SuperMax FR

AS/NZS 1530.3-1999

Superior Fire Performance

Low Smoke

SuperMax FR is an elastomeric insulation engineered and designed specifically to control condensation. Its main uses are for an insulating pipe-work particularly for air conditioning ducting, chilled water lines and refrigerated pipes. Furthermore, SuperMax FR is tested with Australia and New Zealand's stringent building codes for fire hazard requirements. Tests under AS/NZS 1530.3 standard require the flame spread and smoke developed index to be low. SuperMax FR complies with the fire requirements of the Building Code of Australia and can be used in all class 2 to 9 buildings.



<u>SuperMax FR</u>	<u>Values</u>	<u>Test Methods</u>
Material	<i>Nitrile Foam Rubber</i>	
Cell Structure	<i>Closed Cell</i>	
Density Range	<i>40kg/m³ - 70kg/m³</i>	
Service Temperature	<i>Maximum 105°C pipes (85°C for flat surfaces) Minimum -50°C</i>	
Fire Performance	<i>Ignitability Index - 0 Flame Spread Index - 0 Heat Evolved Index - 0 Smoke Developed Index - 3</i>	<i>AS/NZS 1530.3-1999</i>
Thermal Conductivity		
<i>Mean Temp 0°C</i>	<i>0.032 W/m-k</i>	<i>ASTM C518</i>
<i>Mean Temp 20°C</i>	<i>0.034 W/m-k</i>	
<i>Mean Temp 40°C</i>	<i>0.036 W/m-k</i>	
Water Vapour Permeability	<i>≤ 0.89 x 10 kg/Pa.m.s</i>	<i>ASTM E96</i>
Water Absorption by Volume	<i>μ ≥ 12,000 0.2%</i>	<i>ASTM C209</i>
Ozone Resistance	<i>Good</i>	
Corrosion Resistance	<i>No Corrosion</i>	
Environment	<i>Dust and Fibre Free CFC Free, Zero Global Warming Potential</i>	

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SIZES:

Quantity per Carton	I.D.	Wall Thickness	Length	Code	R-Value
72 lengths	13mm	13mm	2m	3274B	0.6
56 lengths	19mm	13mm	2m	3274C	0.54
42 lengths	25mm	13mm	2m	3274D	0.51
30 lengths	32mm	13mm	2m	3274E	0.48
30 lengths	35mm	13mm	2m	3274E	0.47

Insulation R-Value

R-value is the measure of thermal resistance used for the building and construction industry. It measures a material's ability to resist heat flow. R-value are specified in the Building Code of Australia (BCA) section J. The higher the R-value, the higher the thermal resistance and insulating effect.

SuperMax FR 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 installation, determine the thickness of the insulation material based on five factors:

- Ambient temperature
- Relative humidity
- Pipe Size (outer diameter of pipe)
- Line temperature