

## **AEROFLEX INSULATION – FIRE RATED TO AS/NZS 1530.3-1999**

Patton is pleased to announce its world renowned AEROFLEX Closed Cell elastomeric thermal insulation has been fire rated to comply with AS/NS 1530.3-1999.

AEROFLEX has long been a premium industry product with many international certificates, including ASTM E84 & ASTM D635 for flammability and smoke density. Attaining NZ/Aus certification will further enhance its local market position as a quality product.

AEROFLEX Closed Cell tube and sheet insulation is constructed from lightweight elastomeric material and is ideal for insulating liquid cooling and heating lines. The closed cell structure provides many advantages over most rigid insulations used on heating and cooling lines, such as:

- Moisture & vapour resistance, without the need for additional vapour barriers.
- Stable thermal conductivity (K value) during service.
- Flexibility allows for ease of installation and provides a tidy finished appearance.
- Outstanding “Ultraviolet” properties and weather resistance.



Aeroflex is therefore an ideal insulation for frost control on chilled liquid or refrigerant lines. Preventing heat gain and condensation problems it is also equally adept at heat loss prevention on hot water and domestic plumbing applications.

## **AEROFLEX<sup>®</sup> Closed Cell Elastomeric Thermal Insulation**

PHYSICAL PROPERTIES*		AEROFLEX					TEST METHOD**	
Cell Structure		Closed cell					-	
Density lbs/ft <sup>3</sup> (g/cm <sup>3</sup> )		3~6 (0.048~0.096) ***					ASTM D 1667	
Thermal Conductivity BTU.in/ft <sup>2</sup> .hr.°F (W/mk)	Mean temp.	-4°F (-20°C)	32°F (0°C)	75°F (24°C)	90°F (32°C)	104°F (40°C)	ASTM C177 JIS A1412 DIN 52613	
	K-value	0.22 0.032	0.23 0.034	0.25 0.037	0.26 0.038	0.27 0.039		
Service Temperature****		-70°F to 257°F -57°C ~+ 125°C					AEROFLEX becomes hard at -57°C, but can be used even at -200°C	
Water Vapor Permeability (kg/Pa.s.m)		0.10 perm-in (0.15 x 10 <sup>-12</sup> )					ASTM C 355 E96*****	
Moisture Resistance ( μ value)		μ ≥ 5000					DIN 52615	
Water Absorption (weight %)		≤ 5					ASTM D 1056	
Ozone Resistance		No crack					ASTM D 1171	
Heat Stability (% shrinkage) 200°F (93°C) 7 days		6					ASTM C 534	
Flammability & Smoke, Density		Class V O					UL - 94	
		25/50					ASTM E84	
		Self - extinguishing					ASTM D 635	
		Class 1					GB8424 B1 (China)	
		Class 5.3					EMPA (Switzerland)	
		Non-Flammable					JIS K 6911	
U.V. Weather Resistance		Pass					IMO*****	
Corrosion of copper , stainless		Excellent					-	
Corrosion of copper , stainless		Non corrosive					DIN 1988	
Nitrosamine Contents*****		Not detected					U.S. FDA	
Sound reduction (ΔL <sub>AF</sub> )		27 dB (20 mm)					DIN 52218	
Flexibility		Excellent					-	

Contact your nearest Patton N.Z outlet for more information on AEROFLEX.

[www.pattonnz.com](http://www.pattonnz.com)

