

Technical Data Sheet

FM Insulation Supplies

Therm O Lag Bio-soluble Fibreglass Pipe Sections

Product description : Therm O Lag Fibreglass pipe insulation is supplied in 1000mm lengths in various sizes (mm odp) to suit specific (steel & copper) pipe sizes.

Each section is split along one edge to facilitate easy application to pipes

The material can be supplied plain or faced with FSK foil (Fibreguard) or HD foil facing

Product usage : Insulation of service & process piping operating within the products designated temperature range

Product Density : nom : 64kg/M3 conforming with / tested to ASTM C302

Service Temperature : -18C to +350C ASTM C 411

pH Value : average 8 ASTM C 871

moisture absorption : <2% by weight ASTM C 1104 (M)

Chemical Composition :

SiO ₂	62-63%
Al ₂ O ₃	3.7-4%
Fe ₂ O ₃	0.1-0.2%
CaO	7.5-7.7%
MgO	2.7%
Na ₂ O + K ₂ O	16.8-18.8%
B ₂ O ₃	6%

Chemical Neutrality Therm-o-lag fibreglass pipe sections are chemically neutral & will not cause nor promote corrosion. The products are suitable for use over austenitic stainless steel (ASTM795-77) when measured in accordance with ASTM C 692-77 (corrosion test) and ASTM C871-77 (chemical analysis)

Fire Resistance Properties when tested to AS/NZS 1530.3 - 1999

refer AWTA Textile Testing Test no. 7-552130 - CN dated 04/05/2007

ignitability index	0	
spread of flame index	0	
heat evolved index	0	
smoke developed index	0-1	see note below

note : smoke developed index is reported as 0-1 due to the inability of the smoke measurement equipment to resolve an index of zero

Ozone Depleting Potential

Therm-o-lag bio soluble fibreglass pipe sections are manufactured on our behalf by PGF Insulation Sdn Bhd, Penang, Malaysia. PGF certify that these products have an ozone depleting potential of zero in their manufacture and content.

Total volatile organic compounds & formaldehyde content

Therm-o-lag bio soluble fibreglass pipe sections have been tested by CETEC of Melbourne, Australia for emissions of volatile organic compounds & formaldehyde. The emissions were below detection limits and can be considered insignificant.

R-Value from individual tests conducted by BRANZ (May 2007) the following planar R-values were calculated

thickness nom 25mm R 0.8

thickness nom 40mm R1.2

thickness nom 50mm R1.5

Availability all sizes from 12.7mm odp to 219mm odp in thicknesses 25mm, 40mm & 50mm are available from stock

Larger sizes are occasionally stocked or are available on special order (allow 6 - 8 weeks from order date)

Copies of test certificates :

Copies of all test results & manufacturers certificates can be downloaded from our web site : www.fminsulation.com.au

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rev 3 : 13-8-2012 (Fibreguard added)