

# TECHNICAL DATA SHEET

## POLYWOOL 48KG

### Product description and typical applications

Polywool 48kg is a heavyweight thermally bonded polyester blanket having ultimate thermal control and acoustic absorption properties of the Polywool range. It is available in various thicknesses and widths.

Polywool 48kg is completely safe, non toxic, non-irritant, non-allergenic and is easy to work with and is environmentally friendly.

Polywool 48kg polyester blanket is used for internal lining of air-conditioning ductwork with a suitable factory bonded airway facing film where both acoustic and thermal control are required. When thermal properties only are needed it is used as an external lagging with a factory bonded vapour barrier foil.

### Physical Characteristics

Polywool 48kg is a grey polyester blanket of nominal 48kg/m<sup>3</sup> density available in the following standard sizes. Other configurations are available on request subject to minimum order quantities.

Thickness (mm)	Width (mm)	Roll Length (m)	R-value (m <sup>2</sup> K/W)
25	1200	15	0.74
50	1200	7.5	1.5
50	1380	6	1.5
50	1500	6	1.5

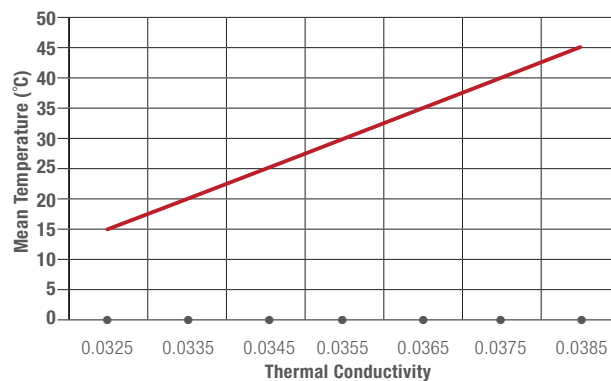
### Available Facings

When used as an air-conditioning ductwork internal lining a suitable facing is bonded to the blanket to give a smooth cleanable finish. Several types are used to suit differing applications, the main ones being black polyester tissue, perforated building foil and AFT™. Each of these offer minimum acoustic resistance allowing maximum effect of the acoustic performance.

When used as a lagging for thermal control for either ductwork, plant and equipment the blankets are available faced with a light, medium or heavy duty building foil or AFT™.

### Thermal Conductivity

Polywool 48kg has a thermal conductivity of 0.034W/mK at 23C° when tested in accordance with ASTM C117



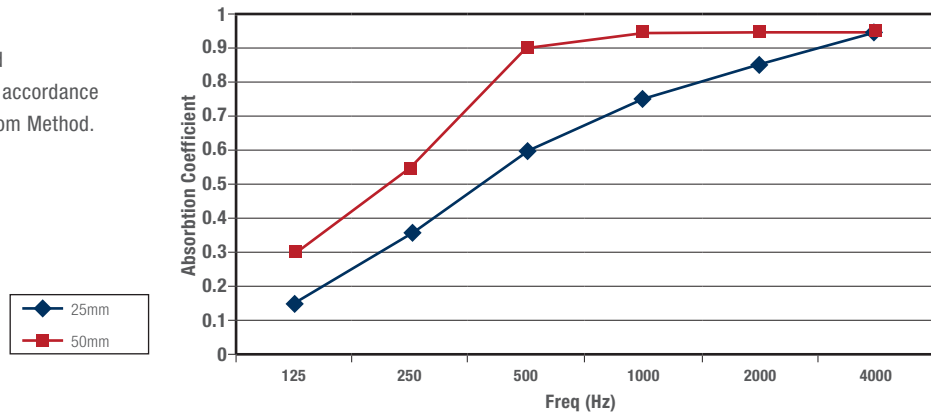
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## Acoustic Performance

Polywool 48kg has the following sound absorption coefficients when tested in accordance with AS 1045 by the Reverberation Room Method. Figure Extrapolated from test reports.



Freq (Hz)	125	250	500	1000	2000	4000	NRC
25mm	0.15	0.35	0.6	0.75	0.85	0.95	0.65
50mm	0.3	0.55	0.9	0.95	0.95	0.95	0.9

## Early Fire Hazard Test Results

Polywool 48kg is a Self Extinguishing product. Conforms to requirements of Aust/NZ Building Code requirements as tested in accordance with AS1530 part 3, results as follows:

Ignitability	(0-20)	0
Spread of Flame	(0-20)	0
Heat Evolved Index	(0-10)	0
Smoke Developed Index	(0-10)	3

## Installation

Polyester insulation can be cut with a sharp industrial knife such as a Power Black or Swibo knife, or use of electric power reciprocating and circular action knives, as used in the garment trade, will increase efficiency and accuracy. Blankets can be mechanically fastened with cd weld pins, just place the insulation over the pins and tap with a rubber mallet to pierce before using speed clips. When used with a foil facing, joins can be sealed with a reinforced foil tape.

## Miscellaneous Properties

Rec. Max service Temp:	160 degrees Celsius Plain, With adhesives, facings 70 degrees Celsius
Ingredients:	Organic, Long Chain Synthetic Polymer
Chemical Entity:	Composed of Carbon-Hydrogen-Oxygen
Alkalinity:	pH 7.8
Moisture Absorption:	Exposed to an atmosphere of 50 degrees Celsius, 90%RH for four days - Less than 0.03% by volume
Corrosiveness	Not classified as corrosive when tested in accordance with NZS4222

## MSDS

Contact Baron Insulation directly or visit [www.baroninsulation.com.au](http://www.baroninsulation.com.au)

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