

FIREPRO CENTABUILD INSULATION

HEAD OFFICE: AUCKLAND (09) 579 0367
WELLINGTON (04) 568 7086 • CHRISTCHURCH (03) 379 9364
www.firepro.co.nz sales@firepro.co.nz

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P240 DATASHEET - AUG08

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CERAMIC WOOL BLANKET

Ceramic wool blanket is a high temperature flexible insulating material. It is light weight and soft to touch. It has good refractory, fire stopping and insulation properties. It is also used for filtering hot gases and liquids. There are several brands of Ceramic Wool Blanket, including Luyangwool, Isowool, Kaowool, K-wool, etc. 25mm thick blanket of 96Kg/M³ density is required for most uses.

Firepro provide ceramic wool products from a range of suppliers to ensure that our customers have access to high quality products at acceptable prices.

USES

- Linings in high temperature installations
- Lagging or hot surfaces such as pipe lagging
- High temperature expansion joints
- High temperature acoustic barrier
- Filtration of hot gases and liquids
- Fire stopping

FIRE STOPPING FOR BUILDINGS

Ceramic Wool fire stopping is commonly used on hot industrial equipment such as furnaces and kilns. It is also used in building construction, including when "one off" solutions are required for situations where there is not a fully tested fire stopping system available.

The following observations may be helpful:

- 1). Ceramic Wool Blanket is often used 2 layers thick with overlapped joints when used for fire stopping other than in gaps where it will remain compressed in a fire.
- 2). Overlapped joints may be closed with stainless steel wire or other steel fixing methods.
- 3). Where overlapped joints are not possible the Ceramic Wool is usually held under a minimum of 33% compression and tightly butt jointed.
- 4). Ceramic Wool is light weight. It must be held firmly in place to prevent movement in a fire.

DURABILITY

Ceramic Wool Blanket has excellent resistance to chemical attack, resistant to most acids (except hydrofluoric and phosphoric) and many alkalis. It is resistant to oil, water, steam, vermin, and mould growth. It can absorb water without chemical attachment, and thermal and physical properties are restored upon drying.

Typical Ceramic Blanket Properties		
Max Surface Temp	1260°C	
Melting Point	1760°C	
Colour	White	
Chemical Analysis	Al ₂ O ₃	45 – 48%
	SiO ₂	51 – 54%
Fibre Diameter	2.8 microns	
Fibre	100mm (average)	
Tensile Strength Mpa	1.4 x 10 ⁻³	
Bulk Density Kg/M ³	96 (average)	
Liner Shrinkage 1100°V x 24Hrs %	1.8 (average)	
Shot Content >212microns %	18 (average)	
Thermal Conductivity (average) W/Mk	@ 400°C	0.1
	@ 600°C	0.15
	@ 800°C	0.22
Size (nominal)	7.62M x 0.61M x 25mm	

LIMITATIONS

For internal applications only. It should not be subjected to reducing atmospheres at high temperature.

NOTE: The technical information and suggestions for use and application presented herein represent the best information available to us and are believed to be reliable. They should not however be construed as controlling suggestions and there is no warranty of performance of our materials either expressed or implied. We urge that users of our materials conduct confirmatory tests to determine final suitability for their specific end uses. All dimensions are nominal. We reserve the right to make changes or to withdraw designs and products without notice.