



## PRODUCT DESCRIPTION

Kingwool Bio 1100 Blanket is a high-performing Biosouble Ceramic Fibre blanket, with low fibre release, reducing irritation and is a non-hazardous fibre, making it easier to Cut and install the Kingwool blanket.



With Kingwool Bio, the consistent use of pure raw materials in all our factories globally has lead to the 3% shrinkage temperature rising from >1100°C to >1200°C. For this reason, the classification temperature is now given as 1200°C in line with the EN 1094-1 norm.

Over many years, Kingwool Bio fibres have been proven to withstand continuous use in an oxidising atmosphere at 1000°C, which is quoted as the Maximum Continuous Use temperature.

For applications above 1000°C, Kingwool 1300™ fibre is recommended, with a classification temperature of 1300°C.

## BENEFITS

- Exceptional thermal insulation performance compared with industry standards
- Free of binder or lubricant
- Thermal stability
- Low heat storage
- Good resistance to tearing
- Flexible and resilient
- Immune to thermal shock
- Good sound absorption
- Exonerated from any carcinogenic

## TYPICAL APPLICATIONS

- Power generation (HRSG duct insulation)
- Process heater linings
- Pipe wrap
- Furnace and kiln linings
- Storage heater insulation
- Domestic Oven insulation
- Automotive exhaust heat shields
- Aluminium transfer launder covers
- Welding stress relief

### MAIN PROPERTIES

Classification temperature	°C	1100
Maximum continuous use temperature	°C	1000
Colour		White
Density	kg/m <sup>3</sup>	6 96, 128
Typical tensile strength of 128 kg/m <sup>3</sup> density (EN 1094-1)	mPa	50-70
<b>High Temperature Performance</b> Permanent linear shrinkage after 24 hours isothermal heating at 1200°C	%	<4 [typically <1]

### CHEMICAL COMPOSITION (%)

SiO <sub>2</sub>	62-68
CaO	26-32
MgO	3-Jul
Other	<2



# KINGWOOL BIO 1100 BLANKET



## AVAILABILITY AND PACKAGING

THICKNESS	DENSITY (kg/m <sup>3</sup> )		LENGTH
	96	128	
mm			mm
25	X	X	7320
50	X	X	3660

Standard width is 610mm wide.

## THERMAL CONDUCTIVITY (ASTM C-201)

MEAN TEMP (°C)	96 kg/m <sup>3</sup>	128 kg/m <sup>3</sup>
200	0.05	0.05
400	0.09	0.08
600	0.13	0.12
800	0.20	0.17
1000	0.28	0.25

Kingwool gives all Thermal Conductivity data according to the well established ASTM C-201 method.