

BIOWOOL® BLANKET

Biowool® blanket is high strength, needled insulating blanket that is made from Biowool® bulk. The combination of spinning and needling operation produce tough, resilient and strong blankets, which have superior thermal and mechanical properties. Biowool® blanket is used in a wide range of applications including thermal insulation, appliances. Blanket can be folded, compressed and encapsulated to produce modules. It can meet European regulatory requirements (Directive 97/69/EC).



Features

Excellent thermal shock resistance
 Excellent thermal stability
 High tensile strength
 Low thermal conductivity
 Low heat storage

Typical Applications

Pipe wrap
 Furnace and kiln back-up insulation
 Annealing furnace linings
 Appliances insulation
 Expansion joint seals

Typical Parameters

Description	BIOWOOL® 1100 BLANKET			BIOWOOL® 1300 BLANKET	
Classification Temperature (°C)	1100			1300	
Chemical Composition (%)					
SiO ₂	62-68			≥70	
CaO	26-32			-	
MgO	4-7			-	
CaO+MgO	-			≥20	
Color	White			White	
Shot Content (%)	≤12			≤12	
Density (kg/m ³)	64	96	128	96	128
Tensile Strength (kPa)	30	50	70	50	70
Permanent Linear Shrinkage (%)	1100°C x24h≤1.0			1260°C x24h≤3.0	
Thermal Conductivity (W/m·K)					
200°C	0.06	0.05	0.05	0.05	0.04
400°C	0.11	0.09	0.08	0.10	0.08
600°C	0.17	0.13	0.12	0.18	0.14
800°C	0.28	0.20	0.17	0.30	0.22
1000°C	0.40	0.28	0.25	0.46	0.33
1200°C	-	-	-	0.68	0.46

The data shown are typical average results of tests under standard procedures and are subject to variation. Results should not be used for specification purposes or creating any contractual obligation. For more information on the safety application or materials, please refer to the work practices and material safety data sheet.