

## LUYANGWOOL® BLANKET

Luyangwool® blanket is high strength, needled insulating blanket that is made from Luyangwool® bulk. The combination of long spun fibers and needling operation produce tough, resilient and strong blankets, which resist tearing both before and after heating. Luyangwool® blanket is completely inorganic and available in a variety of temperature grades, densities, and sizes. Luyangwool® blanket can be folded, compressed and encapsulated to produce modules.



### 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  
 Chimney insulation  
 Annealing furnace linings  
 Process heater linings

### Typical Parameters

Description	LUYANGWOOL® STD BLANKET			LUYANGWOOL® HP BLANKET		LUYANGWOOL® HA BLANKET		LUYANGWOOL® HZ BLANKET	
Classification Temperature (°C)	1260			1260		1350		1430	
Chemical Composition (%)									
Al <sub>2</sub> O <sub>3</sub>	≥43			≥44		≥52		≥35	
SiO <sub>2</sub>	≥54			≥55		≥47		≥49	
ZrO <sub>2</sub>	-			-		-		≥15	
Color	White			White		White		White	
Shot Content (%)	≤15			≤15		≤15		≤12	
Density (kg/m <sup>3</sup> )	64	96	128	96	128	96	128	96	128
Tensile Strength (kPa)	30	50	70	50	70	50	70	50	70
Permanent Linear Shrinkage (%)	1000°C x24h≤2.5			1100°C x24h≤2.5		1200°C x24h≤3.0		1350°C x24h≤3.0	
Thermal Conductivity (W/m·K)									
200°C	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
400°C	0.12	0.11	0.10	0.11	0.10	0.11	0.10	0.11	0.10
600°C	0.20	0.19	0.18	0.19	0.17	0.18	0.16	0.16	0.15
800°C	0.30	0.23	0.20	0.23	0.20	0.22	0.20	0.21	0.19
1000°C	0.40	0.32	0.27	0.31	0.26	0.30	0.26	0.30	0.26

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.