

■ CERAMIC FIBER BLANKET

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Luyangwool[®] ceramic fiber blanket presents unparalleled refractories and thermal insulation due to its long spun fiber needling technique, these blankets offer superior insulating performance, flexibility and resilience. Luyangwool[®] ceramic fiber blanket products are unaffected by most chemicals (except hydrofluoric & phosphoric acids and concentrated alkali). Thermal and physical properties are retained after drying following wetting by oil, steam or water. Luyangwool[®] ceramic fiber blanket products are completely inorganic, so there are no fumes when heating for the first time.



■ Features

- High tensile strength and Low shrinkage
- Good resiliency with low heat storage
- Low thermal conductivity
- Thermal shock resistance
- Good sound absorption

■ Typical Applications

- Annealing furnaces
- Furnace door linings and seals
- Soaking pit covers and seals
- Furnace hot face repairs
- Reheating furnace and ladle covers

Typical Parameters

Description	STD RCF Blanket		HP RCF Blanket			HZ RCF Blanket		
Chemical Composition (%)								
Al ₂ O ₃	≥44		≥45			≥34		
SiO ₂	≥52		≥54			≥50		
Fe ₂ O ₃ +TiO ₂	≤1		≤0.5			≤0.5		
ZrO ₂	-		-			≥15		
K ₂ O+Na ₂ O	≤1		≤0.2			≤0.2		
Physical Properties								
Density (kg/m ³)	96	128	96	128	160	96	128	160
Classification Temperature (°C)	1260		1260			1430		
Fiber Diameter (um)	3.5		3.5			3.5		
Shot Content (%)	≤15		≤15			≤12		
Linear Shrinkage after heating (%)	1000 °C*24h ≤2.5		1100 °C*24h ≤2.5			1350 °C*24h ≤3.5		
Thermal Conductivity (W/m.k)								
400 °C	0.090	0.095	0.124	0.114	0.101	0.138	0.122	0.118
500 °C	0.119	0.123	0.145	0.135	0.12	0.179	0.153	0.149
600 °C	0.152	0.158	0.202	0.191	0.175	0.233	0.184	0.172
Tensile Strength (Mpa)	0.04	0.05	0.05	0.06	0.075	0.05	0.06	0.075

The data shown are 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



Zaftec Co., Ltd.
 99 Moo 9, Bangsaothong, Bangsaothong,
 Samutprakarn 10570 Thailand T (+66) 2136 9588
 F (+66) 2136 9589 Email: sales@zaftec.co.th