

**Ceramic Fiber Blanket Technical Datasheet**

Description	STD RCF Blanket		HP RCF Blanket			HZ RCF Blanket		
Chemical Composition (%)								
Al <sub>2</sub> O <sub>3</sub>	≥44		≥45			≥34		
SiO <sub>2</sub>	≥52		≥54			≥50		
Fe <sub>2</sub> O <sub>3</sub> +TiO <sub>2</sub>	≤1		≤0.5			≤0.5		
ZrO <sub>2</sub>	-		-			≥15		
K <sub>2</sub> O+Na <sub>2</sub> O	≤1		≤0.2			≤0.2		
Physical Properties								
Density (kg/m <sup>3</sup> )	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	0.120	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)	0.040	0.050	0.050	0.060	0.075	0.050	0.060	0.075