

## AISi Ceramic Fiber Blanket | Technical Datasheet

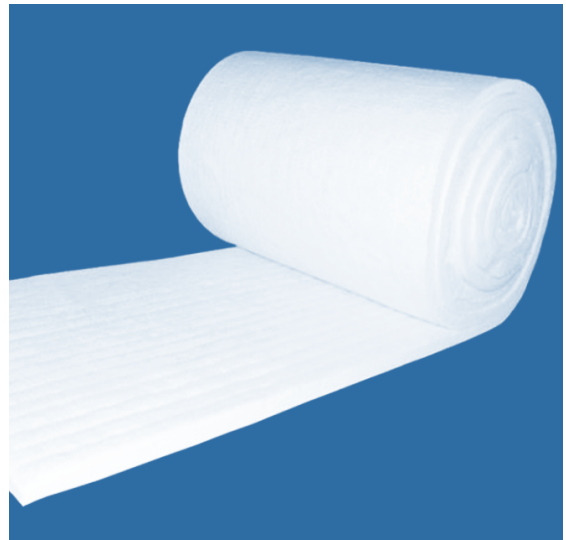
**Wedge AISi Blanket** is Ceramic Fiber Blanket made from bulk fibers, produced by the most modern spinning needling and thermal forming processes. Ceramic Fiber Blanket consist of a group of thermally efficient high temperature insulating materials that combine the advantages of both low heat storage and complete resistance to thermal shock.

### Features & Benefits

- High thermal shock resistance
- Heat resistance
- Low thermal conductivity
- Excellent chemical stability
- Low shot content
- Low heat storage
- High tensile strength

### Applications

- Industrial furnace lining
- High temperature pipes heat preserve
- Heat resistant sealing gasket
- Glass tank furnace thermal insulation
- Power boiler and nuclear heat insulation
- Ceramics kilns thermal insulation
- High temperature filter materials



Item	AISi96 1260			AISi98 1260			1430 ASZ Blanket		
Chemical Composition (%)									
Al <sub>2</sub> O <sub>3</sub>	44			≥45			≥34		
Al <sub>2</sub> O <sub>3</sub> +SiO <sub>2</sub>	≥96			≥98			≥85		
ZrO <sub>2</sub>	-			-			≥15		
Al <sub>2</sub> O <sub>3</sub> +SiO <sub>2</sub> +ZrO <sub>2</sub>	-			-			≥99		
Fe <sub>2</sub> O <sub>3</sub> +RTiO <sub>2</sub>	1.0			≤0.5			≤0.5		
K <sub>2</sub> O+Na <sub>2</sub> O	1.0			≤0.2			≤0.2		
Density (Kg/M <sup>3</sup> )	80	96	128	96	128	160	96	128	160
Classification Temperature (°C)	1260			1260			1430		
Shot Content(%)	≤15			≤15			≤12		
Fiber Diameter (um)	3.5			3.5			3.5		
Permanent Heating Linear Change %				1100°CX24h≤-2.5			1350°CX24h≤-2.5		
Thermal Conductivity (W/m.k)									
400°C	0.100	0.090	0.095	0.124	0.114	0.101	0.138	0.122	0.118
500°C	0.122	0.119	0.123	0.145	0.135	0.120	0.179	0.153	0.145
600°C	0.155	0.152	0.158	0.202	0.191	0.175	0.220	0.184	0.172
Tensile Strength (Mpa)	0.040	0.040	0.050	0.050	0.060	0.075	0.050	0.060	0.075
Specifications (mm)	Length X Width: 14400/7200/3600X1220/610;Thickness: 6~60mm								
Packing	Plastic bag inside, carton box outside or with pallet or woven bags Can be customized by specific requirement.								
Quality Certificate	ISO9001-2008 ISO14001-2004								