

CERAMIC FIBER BLANKET

Ceramic Fiber Blanket is a refractory ceramic fiber featuring light weight, flexible, excellent insulation and heat resistance. Needle punching is carried out while laminating fibers in a layered manner in the manufacturing process, and the fibers are entangled intricately and kept in a blanket shape. Without organic binder, the blankets cause no tearing off at high temperature, nor atmospheric contamination inside the furnaces.

Titan ceramic fiber blankets are classified into four categories based on their thermal insulation capabilities. The temperature ranges from 1260C to 1430C, which meets most of the thermal insulation requirements in



ITEM ID	TI-STD	TI-HP	TI-LZ	TI-SZ
	Standard Purity	High Purity	Low ZrO ₂	Standard ZrO ₂
Classification Temperature (°C)	1260	1260	1300	1430
Recommended Working Temperature (°C)	1050	1100	1200	1350
Density (Kg/m ³)	64/96/128/140/160			
Linear Shrinkage (%)	1050°CX24h≤4	1100°CX24h≤4	1200°CX24h≤4	1350°CX24h≤4
Thermal Conductivity (Mean. 500°C) W/(m.k)	≤0.153	≤0.153	≤0.153	≤0.153
Shot Content (ø≥0.212mm) (%)	≤20	≤15	≤15	≤15
Tensile Strength (25mm blanket) (MPa)	≥0.04	≥0.04	≥0.04	≥0.04
Al ₂ O ₃	≥43	≥44	N/A	N/A
Al ₂ O ₃ + SiO ₂	≥98.5	≥99	N/A	N/A
Al ₂ O ₃ + SiO ₂ + ZrO ₂	N/A	N/A	≥99	≥99
ZrO ₂	N/A	N/A	7%	15%
Fe ₂ O ₃	≤1.0	≤0.5	≤0.5	≤0.5
Sizes	6*610*28000mm; 13*610*14400mm; 25*610*7200/7320/7620mm; 38*610*5500mm; 50*610*3600/3660/3810mm;			
	Other sizes available			



PRODUCT CHARACTERISTICS

- Good chemical stability
- Low thermal conductivity
- High tensile strength
- Good sound insulation
- Good thermal insulation



Typical Applications

- Industrial furnace back lining
- High temperature duct wrapping
- Module making
- Construction thermal insulation