



**Dineen Sales Ltd.**

# Ceramic Fibre Blanket



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**DINEEN CERAMIC FIBRE BLANKET** is made of special ceramic long-fibre that is produced by the melting of very pure raw materials in double surface needling process without binders. It's a fibroid light refractory with light weight, heat resisting, excellent thermal stability, lower heat conductivity and good mechanism strength.

## **CHARACTERISTIC**

- Needed blanket
- Low density and low thermal conductivity
- Resilience and resistance to thermal shock
- Excellent chemistry quality
- Flexible and easy to cut or install
- Excellent obstructing voice and mechanism strength

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## **APPLICATION**

Industrial furnace Heat treatment  
Direct exposure to heat as furnace hot face lining  
High temperature filter material  
Heat treatment insulation

Physical Properties	Common	Standard	Pure	High Aluminum	Zirconium
Classification Temperature (°C)	1100	1260	1260	1360	1430
Working Temperature (°C)	<1000	1050	1100	1200	1350
Colour	White	Pure White	Pure White	Pure White	Pure White
Density kg/m <sup>3</sup>	96 128	96 128	96 128	128 160	128 160
Permanent Linear Shrinkage (% after 24 hours)	-4 (1000 °C)	-3 (1000 °C)	-3 (1100 °C)	-3 (1250 °C)	-3 (1350 °C)
Thermal Conductivity W/(m-K) Density 128kg/m <sup>3</sup>	0.09 @400°C 0.176 @800°C	0.09 @400°C 0.176 @800°C	0.09 @400°C 0.176 @800°C 0.22 @1000°C	0.132 @600°C 0.22 @1000°C	0.76 @600°C 0.22 @1000°C
Tensile Strength (MPa) Density 128kg/m <sup>3</sup>	0.08—0.12	0.08—0.12	0.08—0.12	0.08—0.12	0.08—0.12

Chemical Composition	Common	Standard	Pure	High Aluminum	Zirconium
Al <sup>2</sup> O <sup>3</sup> %	44	46	47-49	52-55	39-40
Al <sup>2</sup> O <sup>3</sup> + SiO <sup>2</sup> %	96	97	99	99	-
Al <sup>2</sup> O <sup>3</sup> + SiO <sup>2</sup> + ZrO <sup>2</sup> %	-	-	-	-	99
ZrO <sup>2</sup> %	-	-	-	-	15-17
Fe <sup>2</sup> O <sup>3</sup> %	< 1.2	< 1.2	0.2	0.2	0.2
Na <sup>2</sup> O + K <sup>2</sup> O %	≤ 0.5	≤ 0.5	0.2	0.2	0.2

*Please Note: The above data are average results of standard tests, which are subject to variation and should not be taken as specification*