AlSi1650 | High Alumina Refractory Fibre Blanket

Wedge AlSi1650 is high Alumina Refractory Fiber based Insulation Material suitable for continuous service temperature up to 1600 ºC. Due to high Alumina content it has extremely low shrinkage and provides most stable thermal and mechanical properties at high temperature. Its Polycrystalline Wool structure is based on mix of high purity mullite and corundum.

Features & Benefits

- High thermal shock resistance
- Heat resistance, High fire resistance
- Suitable for high temperature application
- Low thermal conductivity
- Very linear shrinkage
- Very low shot content
- Excellent chemical stability
- Low heat storage
- High tensile strength

Applications

- Industrial furnace lining
- Blast Furnace Insulation
- Steel reheating furnaces
- Heat treatment furnaces & kilns
- Forging furnaces
- Heat resistant sealing gasket
- Ceramics kilns thermal insulation
- High temperature filter materials

Technical Properties

Blanket Product Name	AlSi1650-96A	AlSi-1650-128A	AlSi-1650-96M	AlSi-1650-128M
Maximum Service Temperature, °C	1600	1600	1600	1600
Density, kg/m^3	96	128	96	128
Alumina, Al2O3	80	80	74	74
Silica, SiO2	20	20	26	26
Mean Fiber Diameter, µm	3.3	3.3		
Melting Temperature, °C	2000	2000		
Thermal Shrinkage at 24 hrs, heating @1500°C	0.8	0.8		
Thermal conductivity, W/mK				
400°C	0.05	0.04	0.08	0.08
500°C	0.11	0.10	0.10	0.09
800°C	0.21	0.19	0.20	0.17
1000°C	0.32	0.25	0.27	0.24
1200°C	0.41	0.28	0.40	0.33
1400°C	0.54	0.35	0.59	0.48
Thickness, mm	12.5 / 25	12.5 / 25	6 / 12.5 / 25	6 / 12.5 / 25
Size, mm	620x7200	620x7200	610x3600	610x3600