

TaoFibre® Polycrystalline Alumina Fiber Blanket



TaoFibre® Polycrystalline alumina fiber blanket is high strength, needed insulating blanket that is made from TaoFibre® bulk. The blanket contains no organic binders or other additives. The blanket resists corrosion, oxidation and reduction. TaoFibre® blanket is widely used in the field of high-temperature insulation in various industries.

Features

- Excellent thermal shock resistance
- Excellent thermal stability
- High tensile strength
- Low thermal conductivity
- Low shot content

Typical Applications

- Furnace hot face lining in high temperature industries
- Backup insulation
- Burner block warps
- Expansion joints
- Gaskets in furnaces

Description	TaoFibre® Polycrystalline Alumina Fiber Blanket
Classification Temperature (°C)	1600
Continuous Temperature Use Limit (°C)	1500
Chemical Composition (%)	
Al ₂ O ₃	71-73
SiO ₂	27-29
Leachable Chlorides	Trace
Color	White
Density (kg/m ³)	96/128
Tensile Strength (kPa)	≥80
Permanent Linear Shrinkage (%)	1400(°C) x 24h <1.0
Thermal Conductivity (W/m·K)	
400 (°C)	0.09
600 (°C)	0.16
800 (°C)	0.22
1000 (°C)	0.28
1200 (°C)	0.36
1400 (°C)	0.45