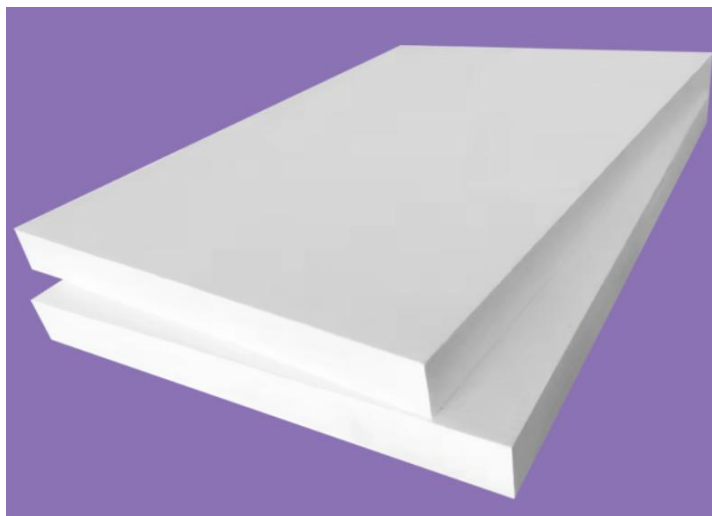


CCEWOOL® 1800°C Polycrystalline Wool Board for Fabrication



Classification Temperature: 1800°C (3272°F)

Chemical Composition: Alumina, Silica

CCEWOOL® 1800°C Polycrystalline Wool Board for Fabrication is a high-performance rigid insulation board developed for extreme-temperature industrial furnace lining systems. Made from high-purity polycrystalline wool, it is produced through wet vacuum forming and high-temperature sintering stabilization, creating a stable fiber and crystalline structure that maintains excellent integrity under

ultra-high-temperature conditions.

Compared with conventional industrial fiber boards, this product is further optimized in raw material purity, crystalline stability, and high-temperature shrinkage control. Even at 1800°C (3272°F), it maintains good structural integrity together with excellent thermal shock resistance and resistance to high-velocity gas erosion, making it suitable for hot-face and other extreme-temperature areas.

The product is specifically developed for Fabrication customization. Its dense and uniform structure, combined with good mechanical strength, allows cutting, drilling, and precision machining into custom-shaped high-temperature insulation components such as furnace door panels, fire barriers, and structural insulation parts.

CCEWOOL® also provides customized thicknesses, dimensions, and complex shapes according to furnace lining designs or customer drawings, helping meet the structural and installation requirements of extreme-temperature furnaces and specialized thermal equipment.

Characteristics:

Engineering-grade polycrystalline wool board;

Maximum temperature up to 1800°C;

Extremely low linear shrinkage;

Excellent thermal shock resistance;

High mechanical strength;
Suitable for direct flame contact;
Extremely low shot content and low dust;
Excellent Fabrication performance.

Applications:

High-temperature laboratory furnaces;
Vacuum furnaces and protective-atmosphere furnaces;
High-temperature sintering furnaces;
Ceramic and glass kilns;
Hot-face linings for high-temperature equipment.

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CCEWOOL® 1800°C Polycrystalline Wool Board for Fabrication					
ITEM	1500	1600	1700	1800	1900
Classification temp. °C (°F)	1500(2732)	1600(2912)	1700(3092)	1800(3272)	1900(3452)
Continuous duty temperature, °C(°F)	1350(2462)	1400(2732)	1500(2732)	1650(3000)	1800(3272)
Density approx. kg/m ³	350/400	350/400	350	350/400	650/700
Linear shrinkage, %(24 hours at max. continuous duty temperature)					
1400°C	<0.5				
1500°C		<0.1			
1600°C			<0.5		
1700°C				<0.5	
1750°C					<0.2
Chemical Composition (%)					
Al ₂ O ₃	62	64	75	75	87
SiO ₂	37	35	24.5	24.5	12.5
Other	<1	<1	<0.5	<0.5	<0.5

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Cr2O3	-	-	-	-	
Thermal conductivity, W/m.K					
600°C (1120°F)	0.11	0.14	0.12	0.12	0.11
800°C (1472°F)	0.15	0.17	0.15	0.16	0.14
1000°C (1832°F)	0.27	0.24	0.18	0.19	0.17