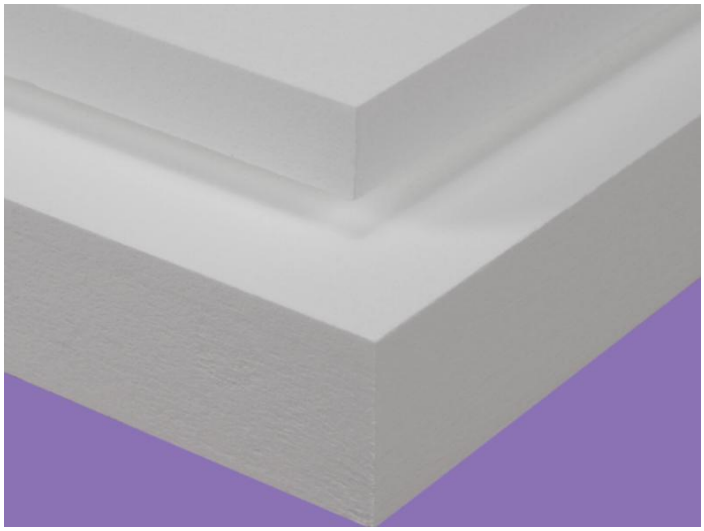
CCEWOOL® 1900°C Polycrystalline Wool Board for Fabrication



Classification Temperature: 1900°C (3452°F)
Chemical Composition: Alumina, Silica
CCEWOOL® 1900°C Polycrystalline Wool Board for Fabrication is a high-performance rigid insulation board developed for extreme ultra-high-temperature industrial and research equipment. Made from high-purity polycrystalline mullite fiber, it is produced through wet vacuum forming and high-temperature stabilization to maintain stable fiber structure and mechanical performance under extreme temperatures. Compared with conventional industrial fiber boards, this product is further optimized in raw material purity, crystalline stability, and high-temperature shrinkage control. Even at 1900°C (3452°F), it maintains low thermal shrinkage and good dimensional integrity, making it suitable for ultra-high-temperature laboratory equipment, specialized industrial systems, and other critical insulation areas.

The product is specifically developed for Fabrication customization. Its dense and uniform structure supports precision cutting, drilling, and complex machining for custom-shaped insulation parts, structural components, and functional high-temperature parts.

CCEWOOL® also provides customized thicknesses, dimensions, and complex shapes according to engineering requirements or customer drawings, helping meet the demands of ultra-high-temperature industrial and research equipment for dimensional accuracy and structural reliability.

Characteristics:

Engineering-grade polycrystalline wool board;
Ultra-high-temperature stability up to 1900°C;
Extremely low thermal shrinkage;
Excellent thermal shock resistance;
High mechanical strength;

Zibo Double Egret Thermal Insulation Co.,Ltd
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Suitable for direct flame contact;

Extremely low shot content and low dust;

Excellent Fabrication performance.

Applications:

Ultra-high-temperature laboratory furnaces;

Materials research equipment;

High-temperature vacuum furnaces;

Aerospace testing equipment;

Ultra-high-temperature structural insulation components.

TDS

CCEWOOL® 1900°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/m3	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 (%)					
Al2O3	62	64	75	75	87
SiO2	37	35	24.5	24.5	12.5
Other	＜1	＜1	＜0.5	＜0.5	＜0.5
Cr2O3	-	-	-	-	

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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

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