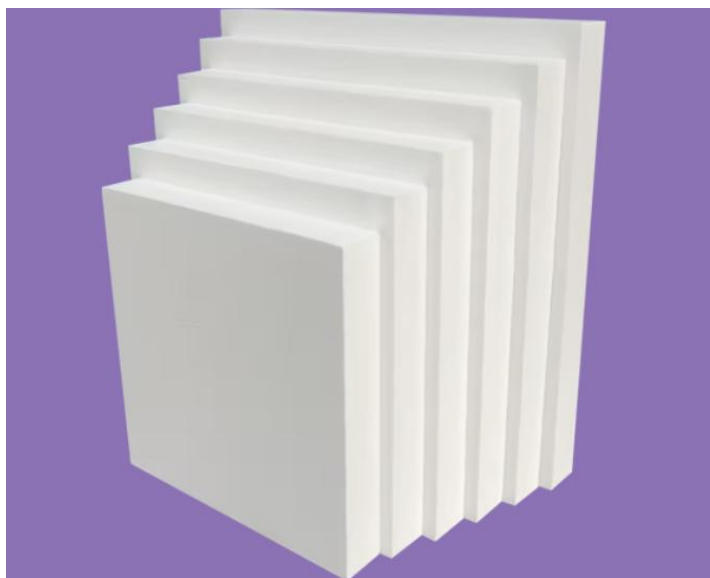


CCEWOOL® 1700°C Polycrystalline Wool Board for Fabrication



Classification Temperature: 1700°C (3092°F)

Chemical Composition: Alumina, Silica

CCEWOOL® 1700°C Polycrystalline Wool Board for Fabrication is an engineering-grade rigid insulation board developed for ultra-high-temperature hot-face and high-velocity gas applications. Made from high-purity polycrystalline wool, it is produced through wet vacuum forming and high-temperature stabilization to create a uniform and stable crystalline structure with excellent thermal and mechanical integrity.

Compared with conventional industrial fiber boards, this product is further optimized for structural strength, dimensional stability, and high-temperature shrinkage control. Even at 1700°C (3092°F), it maintains a stable structure and offers excellent resistance to high-velocity gas erosion, making it particularly suitable for hot-face areas and locations exposed to strong thermal gas flow.

The board is specifically developed for Fabrication customization. Its dense and uniform structure allows precision cutting, drilling, and custom machining into high-temperature structural parts, shaped insulation components, burner blocks, fire barriers, and other functional components.

CCEWOOL® can also provide customized thicknesses, dimensions, and complex shapes according to equipment structures or customer drawings, making the product suitable for industrial furnaces, combustion systems, and other demanding high-temperature equipment.

Characteristics:

Engineering-grade polycrystalline wool board;

Stable structure at 1700°C;

Excellent resistance to gas erosion;

High mechanical strength and modulus of rupture;

Excellent thermal shock resistance;

Extremely low shot content and low dust;

Excellent Fabrication performance.

Applications:

Hot-face insulation structures for industrial furnaces;

Combustion chamber components;

High-velocity hot gas erosion areas;

Furnace doors and fire barriers;

High-temperature flues and hot-gas ducts.

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CCEWOOL® 1700°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
Cr ₂ O ₃	-	-	-	-	
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