

CCEWOOL® 1600°C Polycrystalline Wool Board for Fabrication



Classification Temperature: 1600°C (2912°F)

Chemical Composition: Alumina, Silica

CCEWOOL® 1600°C Polycrystalline Wool Board for Fabrication is a high-performance rigid insulation board developed for ultra-high-temperature engineering and customized Fabrication applications. Made from high-purity polycrystalline wool, it is produced through a wet vacuum-forming process to create a dense and uniform fiber structure. Even at 1600°C (2912°F), the board maintains excellent thermal stability

and structural integrity.

As an Engineering Grade polycrystalline wool board, it offers higher fiber purity, better structural uniformity, and improved dimensional stability compared with conventional industrial fiber boards. This results in lower thermal shrinkage and more reliable long-term performance, especially in critical areas requiring high-temperature dimensional stability and structural strength.

The product is specifically developed for Fabrication customization and can be precisely cut, drilled, grooved, and machined into custom shapes according to equipment structures and engineering drawings. Its uniform and dense structure makes it suitable for customized high-temperature insulation components, shaped boards, and functional parts.

CCEWOOL® also provides customized dimensions, thicknesses, and shaped components to meet the requirements of high-temperature industrial furnaces, laboratory equipment, and other ultra-high-temperature systems.

Characteristics:

Engineering-grade polycrystalline wool board;

Stable structure at 1600°C;

High mechanical strength and structural rigidity;

Low thermal conductivity and low heat storage;

Excellent thermal shock resistance;

Extremely low shot content and low dust;

Excellent Fabrication performance.

Applications:

High-temperature laboratory furnaces;

Structural insulation components for industrial furnaces;

Backup insulation behind dense refractory linings;

High-temperature equipment insulation boards;

Furnace door and structural insulation components.

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CCEWOOL® 1600°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