

CCEWOOL® Stone Wool Board for Fabrication



CCEWOOL® Stone Wool Board for Fabrication is a high-performance mineral wool insulation board developed for industrial equipment insulation and engineered structural applications. The product is manufactured from natural raw materials such as basalt and dolomite, which are melted at high temperatures and fiberized before being processed through a continuous production line to

form rigid boards with a porous fiber structure. This structure provides excellent thermal insulation performance, effective sound absorption, and stable mechanical strength, enabling the product to maintain reliable insulation performance in demanding industrial environments.

This product belongs to the Stone Wool Board category. Compared with conventional insulation-grade mineral wool boards, it features more stable density control and more uniform fiber distribution, resulting in improved structural stability and dimensional consistency. The material offers excellent thermal and chemical stability, does not age easily, and does not corrode equipment, allowing long-term insulation performance in continuous operating conditions.

CCEWOOL® Stone Wool Board for Fabrication is also classified as an A1 non-combustible material, providing superior fire protection without generating smoke or toxic gases when exposed to high temperatures or fire. This makes it suitable for applications where both thermal insulation and fire safety are critical.

In addition, CCEWOOL® Stone Wool Board offers excellent Fabrication compatibility. The board's stable structure and machinability allow it to be cut, grooved, and processed into engineered insulation components. In practical engineering applications, the material is often further fabricated into V-grooved pipe sections, narrow strip insulation components, or custom-sized boards for pipe insulation systems, equipment insulation assemblies, and industrial structural insulation units.

Characteristics:

- Excellent thermal insulation and acoustic absorption performance;
- A1 non-combustible material with outstanding fire resistance;
- Stable fiber structure with excellent aging resistance and non-corrosive properties;
- Low water absorption and good moisture resistance;
- Good compressive strength and structural stability;
- Excellent thermal and chemical stability;
- Good breathability, allowing moisture vapor release;
- Suitable for Fabrication processing and engineered insulation components.

Application:

Industrial Equipment Insulation

- Industrial steam pipelines and high-temperature process piping
- Boiler and heat exchanger insulation systems
- External insulation for large-diameter storage tanks and industrial equipment

Petrochemical and Energy Industries

- Insulation for petrochemical plant piping systems
- Thermal insulation systems for power and chemical industry equipment

Marine and Offshore Equipment

- Marine equipment insulation and fire protection systems
- Pipe and equipment insulation structures for offshore platforms

Building Insulation Systems

- Exterior wall insulation systems
- Curtain wall and building envelope insulation layers
- Roof insulation systems
- Acoustic insulation for partition walls



TDS

CCEWOOL® Stone Wool Board for Fabrication							
Performance	Unit	Density (kg/m³)					Test Standards
Thermal conductivity (average 25°C)	W/ (m.k)	60	80	100	120	180	GB/T10295
		≤0.040	≤0.038	≤0.038	≤0.038	≤0.038	
Combustion performance	--	Class A1 non-combustion					GB8624
Hydrophobicity	%	≥99	≥99	≥99	≥99	≥99	GB/T10299
Maximum operating temperature	°C	550	650	750	750	750	GB/T17430
Recommended operating temperature	°C	450	550	650	650	650	GB50264
Heat load shrinkage temperature	°C	500	650	650	650	650	GB/T11835
Linear shrinkage	%	≤2	≤2	≤2	≤2	≤2	ASTM C356
Corrosiveness	--	No corrosion					ASTM C665

