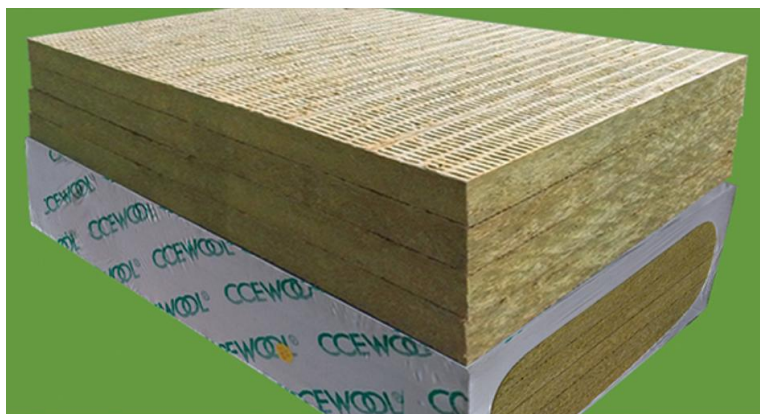


CCEWOOL® Stone Wool Board



Classification Temperature: 750°C (1382°F)

Chemical Composition: Basalt

CCEWOOL® Stone Wool Board is a rigid inorganic fiber insulation board made primarily from natural minerals such as basalt and dolomite through high-temperature melting, fiberization, and compression forming. Its porous fiber structure combines good mechanical strength and toughness with

reliable thermal insulation, sound absorption, and fire resistance, making it suitable for applications requiring long-term safety and stability.

The product offers good thermal and chemical stability, with resistance to aging and corrosion during long-term service. CCEWOOL® Stone Wool Board can achieve an A1 non-combustible classification, making it suitable for fire protection and thermal insulation in both building and industrial systems.

Depending on application requirements, CCEWOOL® can provide water-repellent and low-chloride grades for humid environments or chloride-sensitive applications. Aluminum foil and other facings are also available to improve moisture protection, installation convenience, and overall system performance.

With stable performance and good engineering adaptability, CCEWOOL® Stone Wool Board is widely used in building envelope systems, industrial equipment insulation, fire barriers, and acoustic control applications.

Characteristics:

Excellent thermal and acoustic insulation;

Good moisture resistance;

High compressive and tensile strength;

Low moisture absorption;

Good dimensional stability;

Good aging resistance;

Excellent fire resistance;

Effective sound absorption;

Suitable for thermal insulation, fire protection, and weather protection.

Applications:

Building Industry

- Wall insulation, roofs, building envelopes, thermal insulation, fire protection, and acoustic control.

Petrochemical and Industrial Applications

- Thermal and acoustic insulation for power-generation and chemical-processing equipment.

Industrial and Heavy-Duty Applications

- Thermal insulation and fire protection for industrial furnaces, ovens, large storage tanks, and vessels.

TDS

CCEWOOL® Stone Wool Board							
Performance	Unit	Density (kg/m ³)					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

CCEWOOL® Stone Wool Board for Fabrication



Classification Temperature: 750°C (1382°F)

Chemical Composition: Basalt

CCEWOOL® Stone Wool Board for Fabrication is an engineering-grade rigid insulation board developed for industrial equipment insulation and structural applications. Made primarily from natural minerals such as basalt and dolomite, it is produced through high-temperature melting, fiberization, and continuous forming. Its uniform porous fiber structure provides reliable thermal

insulation, sound absorption, and mechanical strength for long-term industrial service.

Compared with standard insulation-grade stone wool boards, CCEWOOL® Stone Wool Board for Fabrication features tighter control of density, fiber distribution, and dimensional consistency. The more uniform and stable board structure provides better material consistency and structural integrity for demanding industrial applications.

The board is A1 non-combustible and provides reliable fire protection for industrial equipment and building systems. It also offers good thermal and chemical stability, helping maintain consistent insulation performance during long-term operation.

With stable board strength, uniform internal structure, and good surface flatness, CCEWOOL® Stone Wool Board for Fabrication is particularly suitable as a high-quality base material for further Fabrication processing, including cutting, grooving, and structural machining. It can be further processed into insulation components for piping systems, industrial equipment, and other engineered insulation structures.

Characteristics:

Excellent thermal and acoustic insulation;

A1 non-combustible fire performance;

Stable fiber structure with good aging resistance;

Low water absorption and good moisture resistance;

Good compressive strength and structural stability;

Excellent thermal and chemical stability;

Good vapor permeability to support moisture release;

Suitable for Fabrication processing and structural component manufacturing.

Applications:

Industrial Equipment Insulation

- Industrial steam and high-temperature process piping
- Boilers and heat-exchange equipment
- Large-diameter storage tanks and industrial equipment

Petrochemical & Energy

- Petrochemical process piping
- Power-generation and chemical-processing equipment

Marine & Offshore

- Thermal insulation and fire protection for marine equipment
- Offshore platform piping and equipment insulation

Building Insulation Systems

- Exterior wall insulation
- Curtain walls and building envelopes
- Roof insulation
- Partition wall acoustic insulation

TDS

CCEWOOL® Stone Wool Board for Fabrication							
Performance	Unit	Density (kg/m ³)					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

CCEWOOL® Stone Wool Blanket



Classification Temperature: 750°C (1382°F)

Chemical Composition: Basalt

CCEWOOL® Stone Wool Blanket is a flexible roll-form insulation product made primarily from natural basalt through high-temperature melting and fiberization. It combines thermal insulation, fire resistance, and sound absorption in a flexible structure that can

closely conform to irregular equipment surfaces and large-diameter piping.

The product offers good thermal and chemical stability, with resistance to aging and corrosion, making it suitable for long-term industrial use. It can achieve A1 non-combustible classification, providing reliable thermal insulation and fire protection for equipment and personnel.

Depending on application requirements, CCEWOOL® can provide water-repellent and low-chloride grades for humid environments or chloride-sensitive systems. Aluminum foil and wire mesh facings are also available to improve moisture protection, mechanical reinforcement, and installation adaptability.

CCEWOOL® Stone Wool Blanket is widely used in power plants, chemical plants, large-diameter piping, storage tanks, irregular equipment surfaces, dust collectors, and flue systems for thermal insulation, noise control, and personnel protection.

Characteristics:

Excellent thermal insulation;
Good sound absorption;
Environmentally compatible mineral fiber material;
Energy-saving performance;
High water repellency;
Stable long-term performance;
Resistant to mold growth.

Applications:

Thermal and acoustic insulation for building walls and roofs;
Thermal insulation for boilers, vessels, valves, and large-diameter piping;
Industrial equipment and storage tank insulation;
Flue, duct, and dust-collection system insulation.

TDS

CCEWOOL® Stone Wool Blanket					
Performance	Unit	Density (kg/m ³)			Test Standards
Thermal conductivity (average 25°C)	W/ (m.k)	60	80	100	GB/T10295
		≤0.040	≤0.038	≤0.038	
Combustion performance	--	Class A1 non-combustion			GB8624
Hydrophobicity	%	≥99	≥99	≥99	GB/T10299
Maximum operating temperature	°C	550	750	750	GB/T17430
Recommended operating temperature	°C	450	650	650	GB50264
Heat load shrinkage temperature	°C	400	400	400	GB/T11835
Linear shrinkage	%	≤2	≤2	≤2	ASTM C356

Corrosiveness	--	No corrosion	ASTM C665
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CCEWOOL® Stone Wool Blanket with Wire Mesh



Classification Temperature: 750°C (1382°F)

Chemical Composition: Basalt

CCEWOOL® Stone Wool Blanket with Wire Mesh is a flexible insulation product developed for industrial high-temperature and demanding operating conditions. It combines high-quality basalt stone wool blanket with galvanized wire mesh, providing reliable thermal insulation, structural stability, and installation flexibility.

The stone wool fibers are produced from natural basalt through high-temperature melting and fiberization, providing uniform fiber distribution, low shot content, and stable thermal conductivity. The reinforced wire mesh improves tensile strength and overall structural integrity, helping the blanket resist sagging, separation, and deformation in vertical installations, vibrating equipment, and high-airflow environments.

CCEWOOL® Stone Wool Blanket with Wire Mesh provides excellent fire performance and can meet relevant requirements such as ASTM C411-05, EN 13501-1, and EN 13162. It is suitable for thermal insulation, fire protection, noise control, and personnel protection in power plants, chemical facilities, flue systems, dust collectors, and other industrial equipment.

Characteristics:

- Stable performance in industrial high-temperature applications;
- High mechanical strength and vibration resistance;
- Excellent thermal insulation and energy efficiency;
- Easy to cut, wrap, and install;

Good sound absorption;

Non-combustible with strong fire resistance.

Applications:

Power Plants & Thermal Energy Systems

- Main steam piping, waste heat recovery piping, and dust collector casing insulation.

Chemical & Petrochemical Industry

- Fire protection and thermal insulation for large storage tanks, reactors, and heat exchangers.

Metallurgy & Steel Industry

- Insulation for high-temperature furnace shells, flue ducts, and combustion chambers.

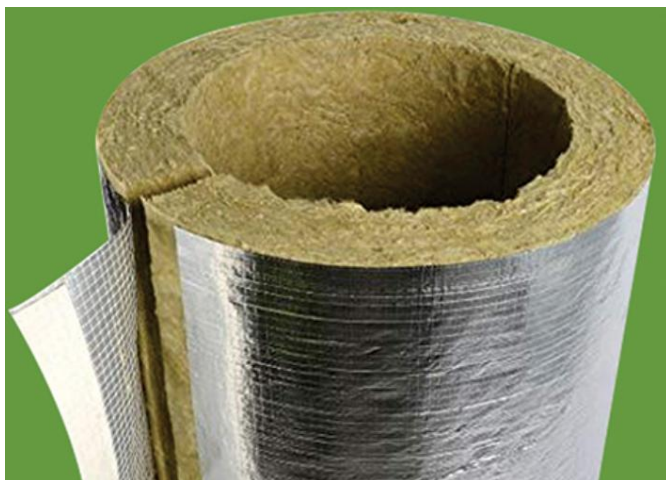
Building & Environmental Systems

- Ventilation ducts, acoustic enclosures, and fire-resistant insulation structures.

TDS

CCEWOOL® Stone Wool Blanket with Wire Mesh					
Performance	Unit	Density (kg/m ³)			Test Standards
Thermal conductivity (average 25°C)	W/ (m.k)	60	80	100	
		≤0.040	≤0.038	≤0.038	GB/T10295
Combustion performance	--	Class A1 non-combustion			GB8624
Hydrophobicity	%	≥99	≥99	≥99	GB/T10299
Maximum operating temperature	°C	550	750	750	GB/T17430
Recommended operating temperature	°C	450	650	650	GB50264
Heat load shrinkage temperature	°C	400	400	400	GB/T11835
Linear shrinkage	%	≤2	≤2	≤2	ASTM C356
Corrosiveness	--	No corrosion			ASTM C665

CCEWOOL® Stone Wool Pipe



Classification Temperature: 750°C (1382°F)

Chemical Composition: Basalt

CCEWOOL® Stone Wool Pipe is a preformed insulation product made from high-quality stone wool fibers and cured under controlled high-temperature conditions. A longitudinal slit allows the section to open easily during installation and fit closely around the pipe surface, creating a continuous and stable insulation layer.

For consistent installation, the outer surface can be precision-finished to maintain uniform insulation thickness. Depending on application requirements, water-repellent and low-chloride grades are available, together with aluminum foil and other facings for enhanced moisture protection, surface protection, and system integration. CCEWOOL® Stone Wool Pipe is designed for insulation of both hot and cold piping systems. It helps reduce heat loss, maintain process temperature, protect personnel from hot surfaces, and reduce condensation risk. Its stable fiber structure also provides good acoustic performance for energy, chemical, power-generation, and industrial piping systems.

Characteristics:

- Excellent high-temperature thermal insulation;
- Low thermal conductivity;
- Stable insulation performance;
- A1 non-combustible material;
- Excellent sound absorption and vibration damping;
- Good moisture resistance and dimensional stability;
- Good resistance to chemical corrosion;
- Lightweight and easy to install.

Applications:

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Tel: +86-533-7986860

Email: ceramicfibres@ccewool.com
Website: www.ceramicfibres.com
www.ccceramicfiber.com
www.ccewool.com

Thermal Piping Systems

- Insulation for steam pipes, hot-water pipes, and hot-oil transfer lines.

Cooling & HVAC Systems

- Condensation control and energy-saving insulation for chilled-water and condensate piping.

Petrochemical & Power Plants

- Thermal and fire protection for high-temperature process piping and oil or gas pipelines.

Building & Mechanical Systems

- Suitable for fire protection systems, central HVAC piping, boiler piping, and related mechanical services.

TDS

CCEWOOL® Stone Wool Pipe		
Performance	Unit	Data
Thermal conductivity	50°C	≤0.039
	100°C	≤0.044
	150°C	≤0.053
	200°C	≤0.065
	250°C	≤0.078
	300°C	≤0.094
Linear shrinkage (650°C)	%	≤2
Mass moisture absorption	%	≤0.5
Hydrophobicity	%	≥98
Chloride ion content	PPM	≤10
Combustion performance	--	Class A1 non-combustion No burning debris, no toxic smoke, and the flame lasts for 0 seconds
Environmental protection	--	No asbestos, no CFCS, HFCS, HCFCs
Corrosiveness	--	No corrosion
Density	kg/m ³	80-120
Specifications	mm	Inner diameter: ϕ 22-760mm Thickness: 30-300mm Length: 1000mm
Packing method and quantity	Woven bag, 1 piece/bag	