

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.

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CCEWOOL® Stone Wool Blanket with Wire Mesh					
Performance	Unit	Density (kg/m³)			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