

Rock Wool Panel

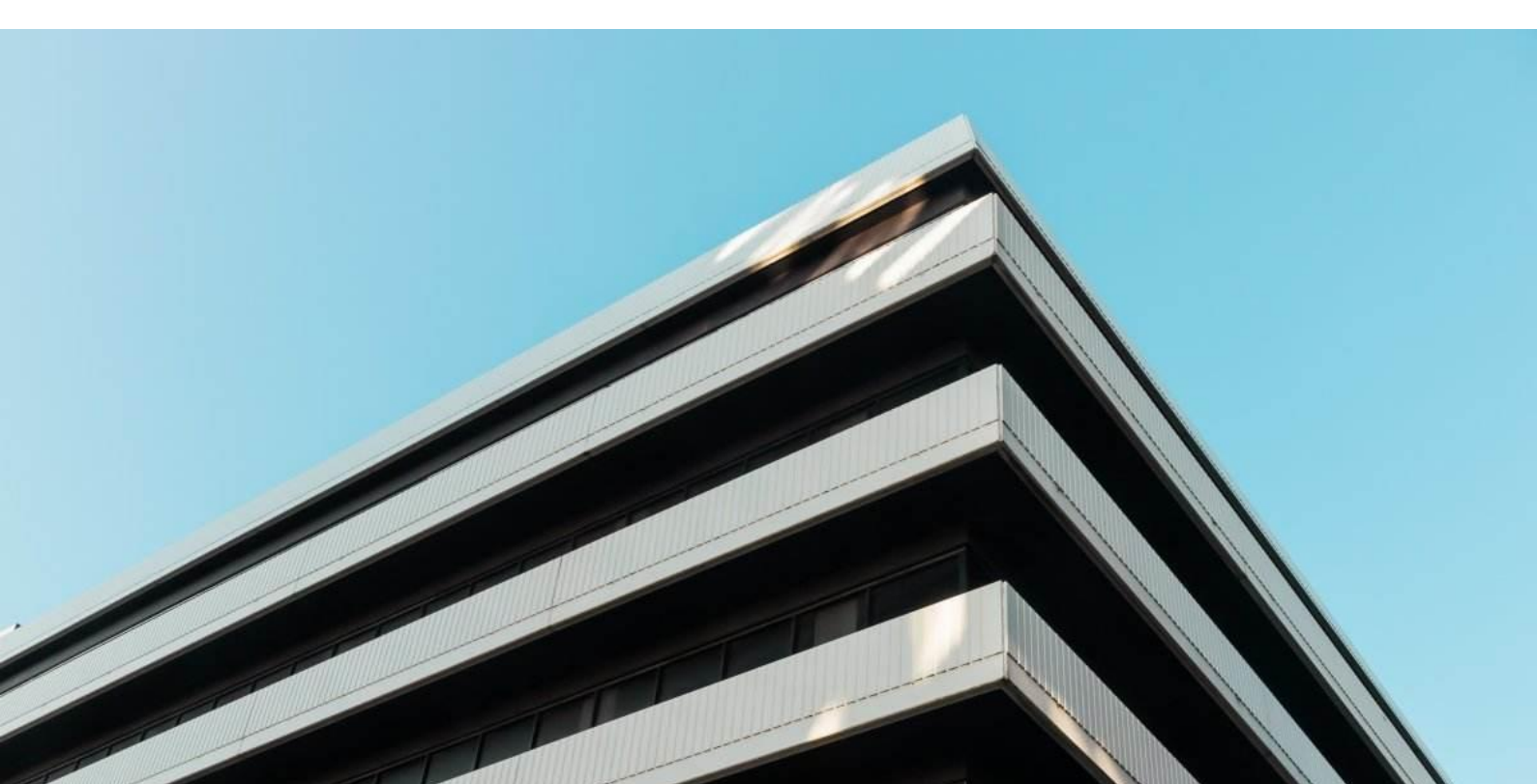


PRODUCT DESCRIPTION

Rock wool products are formulated from natural rock

Rock wool products are using high quality basalt and dolomite as the main raw materials. After melting at a temperature higher than 1450 °C or, it is centrifuged at high speed using an internationally advanced four-axis centrifuge. Dimensions, while spraying a certain amount of binder, dust proof oil, water repellent, and collecting by a cotton collector. Through the pendulum method, and three-dimensional method, after curing, it is solidified and cut to form different Rock wool products for specifications and uses.

Rock wool Panel conforms to GB11835, GB50264, DL/T5072, Domestic and international standards such as SH3010, ASTM C612 and JISA9504, Meet various performance testing requirements.



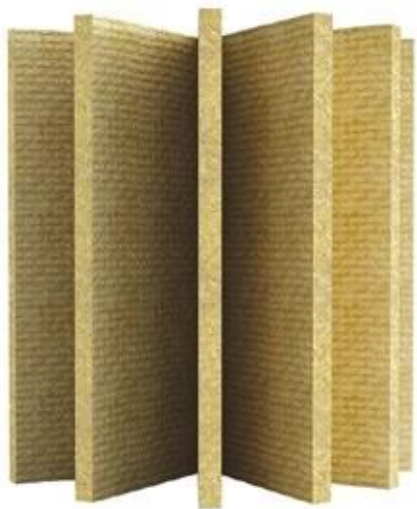
Industrial rock wool Panel

Industrial rock wool Panel is specially designed for industrial insulation, featuring high temperature resistance, high corrosion resistance and excellent thermal conductivity.

SERIES PRODUCTS

The following three standard products are available depending on the operating temperature.

MR-B350 MR-B450 MR-B650



Industrial rock wool Panel

SCOPE OF APPLICATION

Thermal insulation, fire protection, sound absorption and noise reduction of storage tanks, containers and boiler conduit with flat or large diameter surfaces.

PRODUCT FEATURES

High temperature resistance	★★★★★
Strong corrosion resistance	★★★★★
Good thermal conductivity	★★★★★
Good dimensional stability	★★★★★
Anti-compression ability	★★★★★

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PROCESSING TECHNOLOGY

The surface of the rock wool panel can be coated with aluminum foil, glass fiber cloth and other decorative materials.

PACKAGE STORAGE

For the convenience of construction, transportation, storage and identification, rock wool Panel is Wrapped in a heat shrink film. This product should be stored indoors or covered with a waterproof tarpaulin when stored.

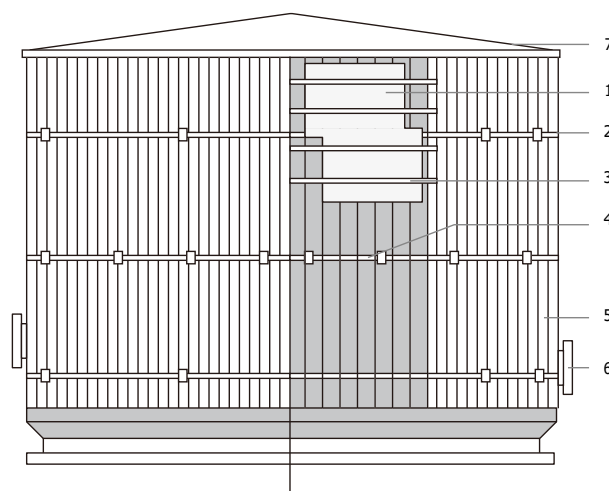


CONSTRUCTION INSTALLATION

The rock wool panels must be seamlessly connected. All metal parts or equipment that need insulated must be kept dry if exposed to corrosive environments. Metal parts or equipment must be surface treated before insulation materials are installed.

In industrial insulation applications, metal coating must be insulated, such as aluminum or other metal materials that are difficult to combine with chemical reactions such as corrosion. Fixing with metal plate screws or rivets at the longitudinal and round joints.

Sealants should be used at all joints to ensure good water tightness. Aluminum foil veneer is the preferred solution, joint longitudinal or cross joints are sealed with self-adhesive aluminum foil tape of width ≥ 75 mm. When insulation equipment temperature is lower than ambient temperature, there is a risk of condensation, and the insulation at this time must be equipped with a steam valve.



1. Industrial thermal insulation rock wool panel
2. Self-adhesive aluminum foil tape (weather resistant)
3. Self-adhesive aluminum foil tape
4. Support ring
5. Valve
6. Coating
7. Roof / wall connection

* For technical problems encountered during construction and installation, please contact our technical service team.

Industrial rock wool Panel

Rock wool panel technical parameters

PARAMETER		MR-B350	MR-B450	MR-B650	UNIT	STANDARD
Density		60	80	100	kg/m ³	GB/T 5480.3
Thickness		30-150			mm	GB/T 5480.3
Size		1200*600			mm	GB/T 5480.3
Thermal Conductivity*	70°C	0.040	0.038	0.038	W/mk	GB/T 10294 GB/T 10296
	100°C	0.046	0.042	0.042		
	150°C	0.050	0.048	0.048		
	200°C	0.064	0.056	0.056		
	250°C	0.076	0.063	0.063		
	300°C	0.080	0.070	0.070		
	350°C	0.077	0.077	0.077		
Recommended temperature*		450	650	650	°C	ASTM C411-05, ASTM C447-03, GB50264
Maximum use temperature		550	750		°C	GB/T 17430, GB50264
Surface burning characteristics	Flue gas development index	≤25				ASTM E84-10
	Flame spread index	0				ASTM E84-10
Combustion performance		Non-flammable, fire rating A1				GB 8624, EN13501-1, BS 476 Part4
Volumetric hygroscopic rate		≤1%				ASTM C1104/1104M
Mass hygroscopic rate		≤1%				ASTM C1104/1104M
Drowning rate		Optional			ppm	GB/T 10299
Chloride ion content*		Optional			ppm	GB/T 17393 ASTM C871-08
Health and safety	Asbestos	No asbestos				HJ/T206, ISO 22262-1, NIOSH 9002
	Irritating odor	No Irritating odor				ASTM C665-06
	Bacteria	No Bacteria				ASTM C1338-08
Standards compliant		GB 11835 "thermal insulation Rock wool, slag wool and products", GB 50264 "Design specifications for industrial equipment and pipeline insulation engineering", ASTM C547 type I & II "Standards for the insulation of mineral fiber tubes", JIS A9504 "Insulation Materials of artificial mineral fibers", SH3010 "Technical Specifications for Petrochemical Equipment and Pipeline Insulation", DL/T 5072 "Design Rules for Thermal Insulation Paints for Thermal Power Plants"				

Remark 1

Thermal conductivity*: The thermal conductivity value of the series is calculated as the average temperature and comply with the relevant provisions of the GB/T 10294 standard "thermal insulation determination of steady-state thermal resistance and related properties-guarded hot plate apparatus". ASTM C177 and GB/T 10294 test methods and judgment standards are slightly different, and the test results are different.

Recommended temperature*: The recommended temperature is based on the maximum operating temperature test result minus 100 °C.

Chloride ion content*: Low chlorine can be achieved ≤10ppm. If you have low chlorine demand, you can contact the Rock wool business representative.

Remark 2

The relevant information in this technical data sheet only indicates the accuracy of the date of publication. In addition to the conditions specified in this data sheet, our company will not assume any responsibility for the use of the series of products.