ROCKWOOL
RockTech Slab Series

ROCKWOOL stone wool products are mainly made of natural stone.

ROCKWOOL®

ROCKWOOL RockTech S

ROCKWOOL stone wool is mainly made from natural stone. The selected stone are melted in a cupola at approximately 1450°C,and the molten lava is fiberized by a spinner.The fibers are then coated with a thermosetting binder which bonds the fibers into a mat.The mat is then cut into suitable sizes for ease of handling and installation. Other products such as wired blanket, pipe cover or faced products are produced by secondary processes.

ROCKWOOL RockTech series is an environmentaly-friendly product with excellent properties of fire safety,water repellency, thermal efficiency, acoustical comfort etc. ROCKWOOL RockTech S complies with Chinese and international standards of GB 11835, GB 50264, DL/T 5072, SH 3010, ASTM C612 and JIS A9504.

Product Series

ROCKWOOL Rocktech Slab series is designed specifically for industrial technical insulation, it has high temperature resistance, good corrosion resistance and low thermal conductivity. RockTech Slab products are in 3 temperatures to suit various applications:

RT-S350 RT-S450 RT-S650

Common Applications

RockTech S is particularly designed to meet the specific thermal insulation, fire protection and sound attenuation requirements for large process pipework, tanks, vessels, boilers and ducts. RockTech S is suitable for applications where high strength combined with great dimensional stability and pressure resistance is required.

Supplementary Product—— ROCKWOOL Loose Wool

General Product Information

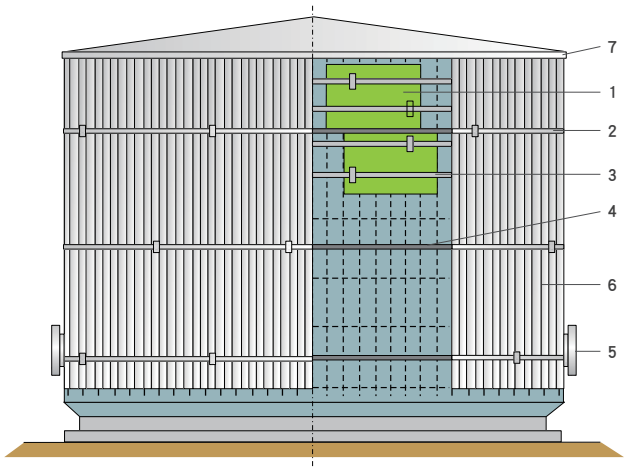
Loose Wool is a robust thermal insulation especially suited for irregularly shaped vessels and surfaces. It consists of long, fine fibres spun from molten natural stone with a small amount of dust suppression agent. Loose wool is supplied in polythene bags with nominal weight of 12.5kg. The product shall be stored indoor and kept out of moisture.

Handling and Installation

RockTech S is securely fastened to the equipment to be insulated with the use of insulation pins which is either mechanically fastened or spot welded onto the surface of the equipment.

The edges of each slab should be butt jointed closely together.All steel components or equipment to be insulated which is exposed to a corrosive environment should be cleaned,de-greased and coated with a protective finish before insulation is installed onto it.

The insulation should be finished with metal cladding i.e. aluminum or other approved cladding material. Both lengthwise and circular joints of the cladding are fastened with sheet metal screws or rivets. All the connections within the cladding should be made watertight using suitable sealant. In the event aluminum foil faced finishing preferred,finished lengthwise and crosswise joints with a self-adhesive alumi num tape(≥75mm width).When the insulating equipment is colder than the ambient temperature, and there is a risk of condensation,the insulation should be provided with a vapor barrier. Further information can be obtained from our local sales representatives.



1. RockTech S
2. Stainless steel bands (weather proofing)
3. Stainless steel bands
4. Support ring
5. Protrusion
6. Cladding
7. Roof/wall connection

ROCKWOOL is the world's leading supplier of stone wool innovative products and systems, dedicated to improving the environment and people's quality of life.

ROCKWOOL®

ROCKWOOL RockTech S

Packaging and Storage

RockTech S is shrink-wrapped in polyethylene sheets or cling wrap for ease of handling, transportation, storage and identification. The product should be stored indoor or under a waterproof covering. The product should not be placed directly on floor to avoid ground moisture from entering into the product.

Facings

RockTech S products can be faced with aluminum foil or glass tissue.

Technical Parameters

	RT-S350	RT-S450	RT-S650	Unit	Standards
Density	60	80	100	Kg/m³	GB/T 5480.3
Thickness		30–150		mm	GB/T 5480.3
Length x Width		1200 x 600		mm	GB/T 5480.3
Thermal Conductivity [1]		-		W/mK	GB/T 10294, GB/T 10296, ASTM C177
70℃	0.041	0.041	0.039	-	-
100℃	0.047	0.047	0.043	-	-
150℃	0.057	0.056	0.050	-	-
200℃	0.066	0.065	0.058	-	-
250℃	0.078	0.077	0.066	-	-
300℃	-	0.082	0.074	-	-
350℃	-	-	0.083	-	-
400℃	-	-	0.093	-	-
Maximum Service Temperature	450	550	750	℃	GB/T 17430, GB50264
Recommended Service Temperature [2]	350	450	650	℃	ASTM C411-05, ASTM C447-03, GB50264
Surface Burning Characteristic		-		-	-
FSI		0		-	ASTM E84-10
SD		≤25		-	ASTM E84-10
Fire Performance		Non-combustible,reaction to fire Class A1		-	GB 8624 EN13501-1 BS 476 Part4
Water Vapor Sorption (% by Weight)		≤1%		-	ASTM C1104/1104M
Water Vapor Sorption (% by Volume)		≤1%		-	ASTM C1104/1104M
Chloride Content [3](option available)		≤10		ppm	GB/T 17393, ASTM C871-08
Water Repellency (option available)		>99%		-	GB/T 10299
Health & Safety		-		-	-
No asbestos		No asbestos use in the manufacture		-	HJ/T206, ISO 22262-1, NIOSH 9002
Odor Emission		No perceptible odor present		-	ASTM C665-06
Fungi Resistance		Does not encourage growth of fungi		-	ASTM C1338-08
Other Relevant Standards		GB 11835 <Rock wool, slag wool and it's products for thermal insulation> GB 50264 <Code for design of industrial equipment and pipeline insulation engineering > ASTM C612<Standard Specification for Mineral Fiber Block and Board Thermal Insulation>type IA to IVB JIS A9504<Man made mineral fibre thermal insulation materials> SH3010 <Design code of equipment and piping insulation for petrochemical enterprises> DL/T 5072 <Code for designing insulation and painting of fossil fuel power plant>			

Notes:

1. Thermal conductivity of RockTech S series products are tested under mean temperature, comply with GB/T 10294 <Thermal insula tion-Determination of steady: state thermal resistance and related properties-Guarded hot plate apparatus>.Results may be different when tested according to ASTM C177 due to difference in test method and conditions.
2. Recommended Service Temperature is based on maximum service temperature minus 100°C.
3. Product with chloride content ≤10ppm is available. Please consult our local sales representative for more information.

Note: The information contained in this data sheet is believed to be correct at the date of publication. ROCKWOOL Company does not accept responsibility for the consequences of using RockTech S in applications different from those described above.

ROCKWOOL

Factory: No.1, Chuangkang Rd, Guangfo Industrial Park, Fogang County, Qingyuan, Guangdong, P.R.C. (511675)

No.5, 4th Keyan Rd, Yizheng Econ & Tech Development Zone, Jiangsu Province (211400)

ROCKWOOL China Hotline: 400 665 0505

Beijing: (+86) 10 6590 6077
Shanghai: (+86) 21 6211 6725
Guangzhou: (+86) 20 3839 3636
Hong Kong: (+852) 2754 0877
Taiwan: (+886) 4 2253 6866
Philippines: (+63) 2 7710 650

www.rockwool.com.cn

Official WeChat