

building green

THE NEW

FUJAIRAH ROCKWOOL FACTORY

Leading Manufacturer of Rockwool Insulation Materials

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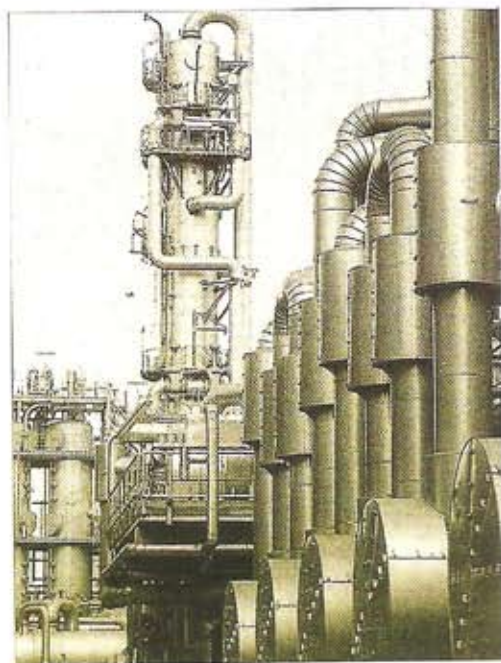
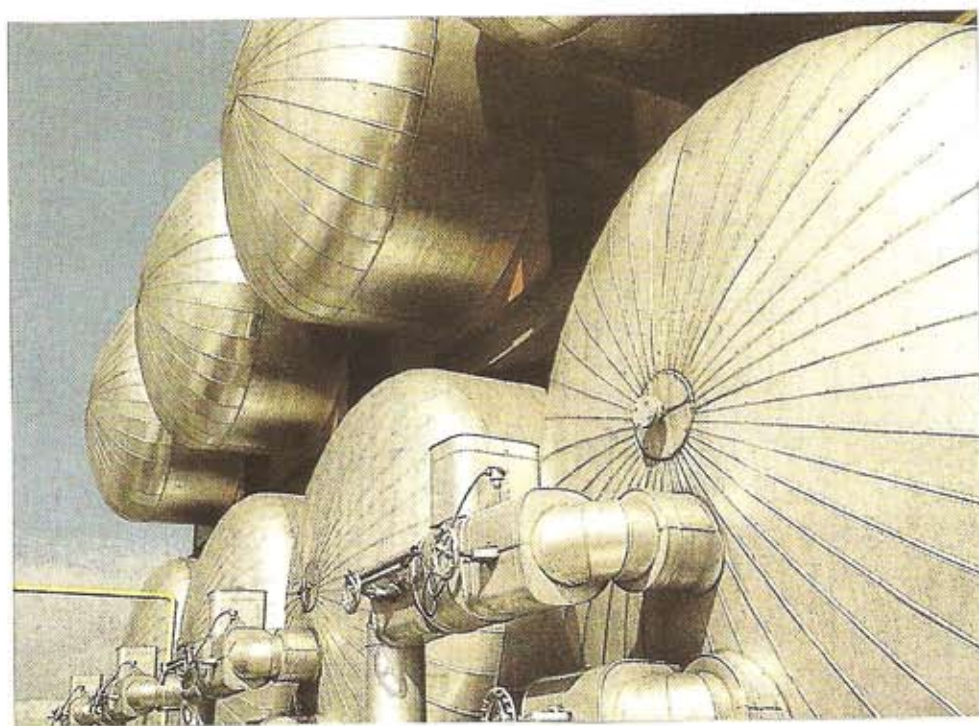
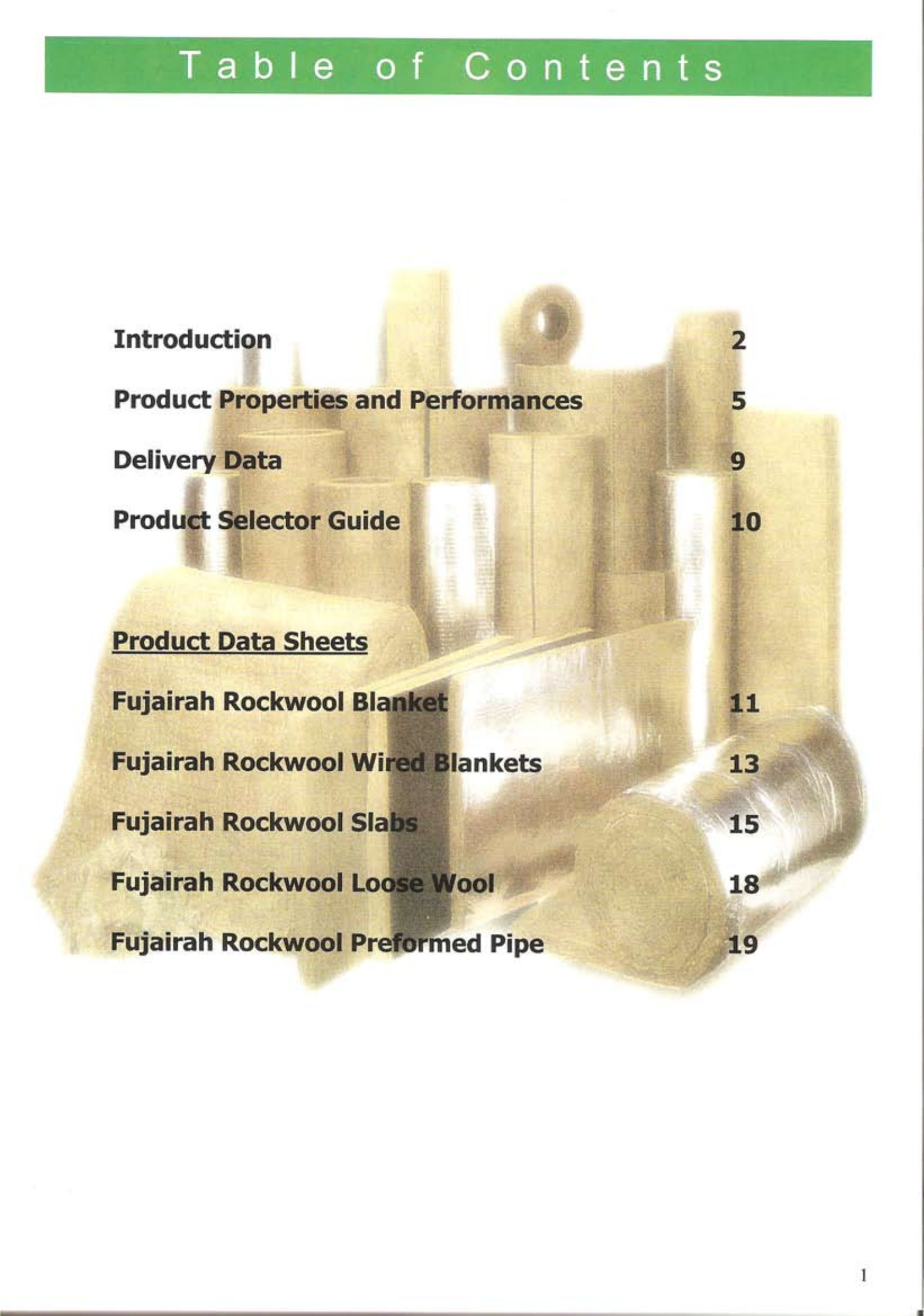


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Fujairah Rockwool

It was in 1982 that Fujairah Rockwool Factory started operations and in the process became the first company to manufacture rockwool insulation products in the GCC region. Begun with an annual capacity of 5000 metric tones, the factory has since then expanded operations and is today the largest manufacturer of insulation products in the GCC with supplies being sent to, besides the GCC countries, the Middle East, the Far East and other parts of the world.

Rockwool as the name implies is made by melting basalt rock mixed with coke and limestone and converting them into fibers.

Basalt rock is a pure volcanic material which is millions of years old. Rockwool is classified as an inorganic material and has excellent resistance to high temperatures and possess superior acoustic properties.

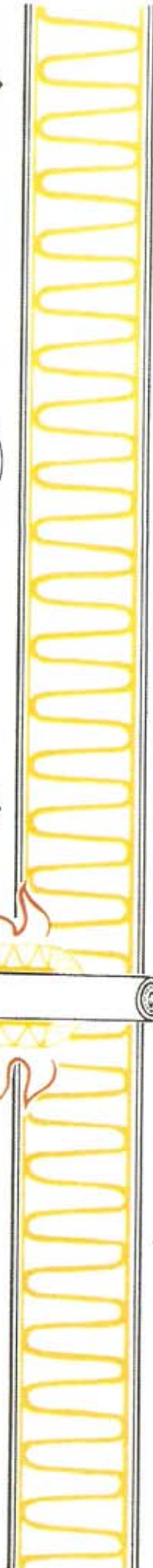
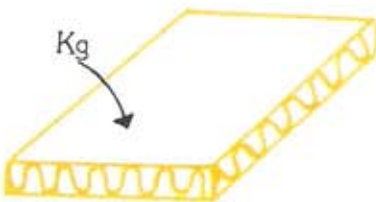
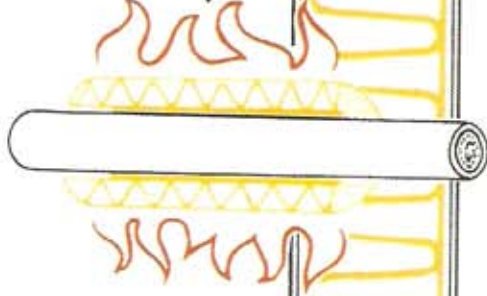
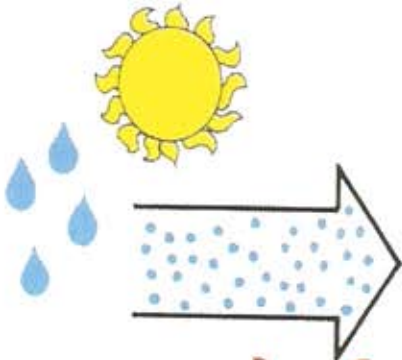


The factory utilizes highly advanced technology to melt basalt at 1400°C to make the flowing lava spin at high speed using the latest *multi spun disc* system to produce hairline fibers which are bound together by spraying with a heat setting resin. The fibers are spread in a conveyor using the pendulum method to achieve an even distribution of density throughout the surface of the resulting products. A special additive is impregnated to the bonded material to make it water resistant.

Fujairah Rockwool Products are used in both commercial and industrial establishments as insulation for power plants, desalination plants, petrochemical plants, refineries, offshore drilling equipment, ships and also in houses, offices, buildings, schools, factories, etc. New product applications are being discovered each year with this remarkably versatile product.



780°C



Low thermal
Conductivity

High temperature
application

High sound
absorption

Non-hygroscopic
Water resistant
Weather proof

Fire resistant
Non-combustible
Non-inflammable

Deformation resistant

Easy to handle
Easy cutting
Easy application
Non-corrosive
Non-carcinogenic
Imputrescible



Fujairah Rockwool is a mineral fiber insulation material produced from locally available basalt rock with outstanding thermo-acoustic insulation properties.

The main uses are:

- ◆ Thermal insulation
- ◆ Acoustic insulation
- ◆ Fire protection

The key benefits of insulation are:

- ◆ Reduce heat loss for fuel savings
- ◆ Personal protection from fire
- ◆ Personal protection to create a comfortable working condition
 - ◆ Reduce sound levels
 - ◆ Control temperature drop
- ◆ Preventing condensation of outside ducts and pipes

Fujairah Rockwool has the following properties:

- ◆ Low thermal conductivity
- ◆ High temperature resistance up to 780°C
 - ◆ Non-combustible
 - ◆ Wide temperature range
 - ◆ No thermal shock
 - ◆ Fire resistant
- ◆ Highly resistant to deformation
- ◆ Non-hygroscopic, non-capillary, water repellent and does not absorb moisture from air
 - ◆ High sound absorption
- ◆ Chemically neutral and does not create corrosion
 - ◆ Asbestos free
 - ◆ Non-carcinogenic

Properties & Performance



Chemical Properties

Fujairah Rockwool fibers are inorganic and composed mainly of silica and alumina. The oxide contents rectify and strengthen the stability of Rockwool at higher temperatures. For a complete analysis the chemical composition can be referred to.

Physical Structure

The fibers are sprayed with thermo-setting binder to make fibers retain its shape and prevent shrinkage during storage. The fibers are also impregnated with special additives to keep it water repellent.

Thermal Conductivity

Thermal conductivity is the main product feature of any thermal insulation. Fujairah Rockwool shows extremely low thermal conductivity values even at low densities due to its fibrous composition.

As per ASTM C-335, ASTM C-177 / ASTM C-518, the coefficient of thermal conductivity shows the insulating capacity. Fujairah Rockwool products offer extremely low thermal conductivity as tested in accordance with ASTM C-335 and ASTM C-177/ASTM C-518 (ISO 8302/ISO 8301) equivalent to BS-874 by means of guarded hot plate method.

Resistance to Water

Fujairah Rockwool products are water resistant. It contains water repellent additives and is non-capillary so it will not absorb any moisture from the air. Even when soaked in water, Rockwool is not damaged because the water fully evaporates leaving Rockwool with its original insulating properties.



Fire Safety Performance

Fire resistant and will not ignite under any condition.

Non-combustible when tested in accordance with BS 476 Part 4 and ASTM E 136. Surface Burning Characteristics when tested as per ASTM E-84 : Flame Spread Index = 0 and Smoke Developed Index = 0. Fire resistance with integrity up to 240 min and insulation up to 196 min, when tested as per BS 476, Part 20, on a single specimen of a fire stop sealing system for use in specific curtain walling system, linear gap seal Rockwool Slab 75 mm thick, 110 kg/m³ density.



Acoustical Properties

Excellent sound absorbing property due to its open fiber structures. It offers innovative solutions to irritating sound encountered in both industrial and commercial establishments.

Deformation Resistance

As per ASTM C-356 and ASTM C-165, Fujairah Rockwool products when subjected to loads do not expand or shrink under varied climactic conditions.

Compatibility

Fujairah Rockwool is compatible with all other forms of material with which it is likely to come in contact in normal building and industrial application.

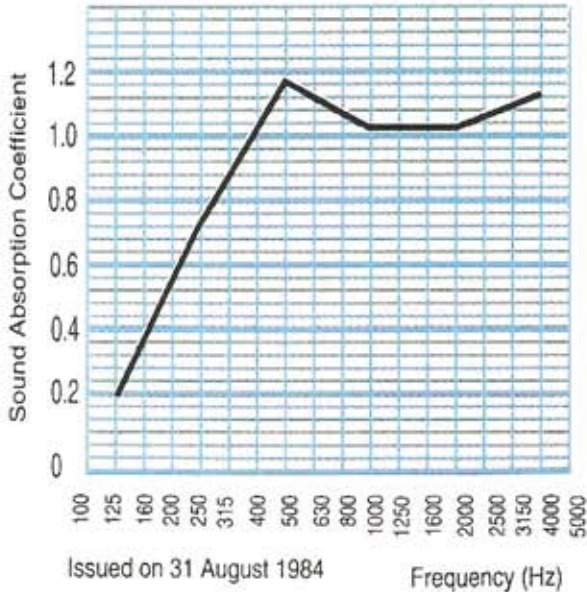
Moisture

Water repellent, non-hygroscopic, non-capillary and does not absorb any moisture from the air. Water vapor sorption test certificates as well as water absorption test certificate in accordance with ASTM C 1104 / C 1104 M and BS 2972: Section 12 and ASTM C 209, respectively, are available upon request.

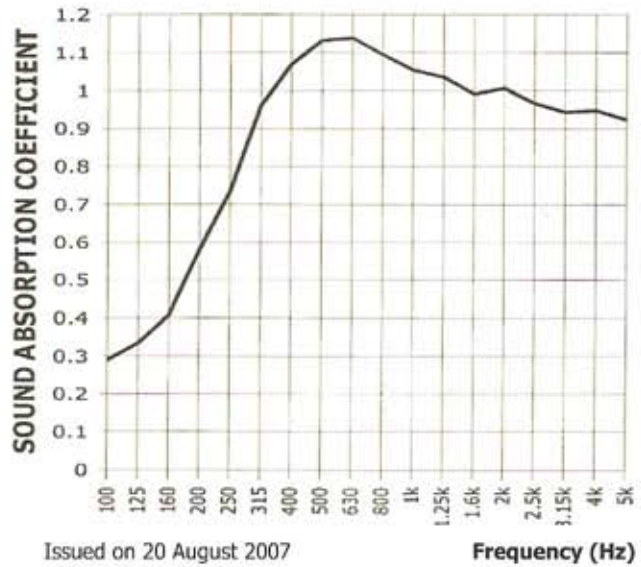
Sound Absorption

Due to the stiffness of the fiber structure, air flow resistance and porosity, Fujairah Rockwool products exhibit exceptional sound absorption properties with an NRC value of 1.0.

This test was conducted by AIRO Acoustic Laboratories in accordance with BS 3638 and ISO 354, and by Riverbank Acoustical Laboratories in accordance with ASTM C 423-07a and E-795-05.



By Airo Acoustic Laboratories



By Riverbank Acoustical Laboratories

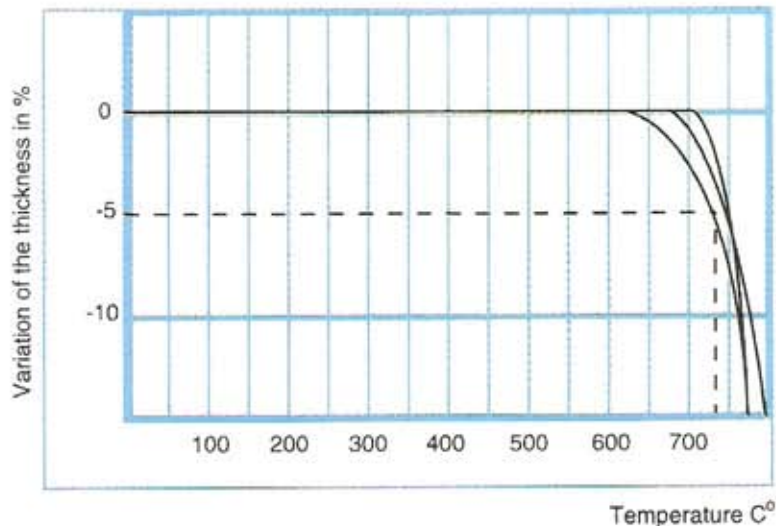
Service Temperature

Fujairah Rockwool insulation has a melting point greater than 1000°C. It can achieve a maximum service temperature of up to 780°C as shown in the test for 80 mm thick, 100 kg/m³ density in accordance with DIN 52271.

However, there is possible deviation for lower densities.

The products are bonded with special heat setting resin that can resist high temperatures. Some Rockwool products are faced with different facing materials.

For facing material information, product data sheets can be referred to.



As tested in accordance with DIN 52271, Fujairah Rockwool products can be used at continuous working temperature up to 780°C without losing any of its insulating properties. Figures are shown above.

Chemical Composition

Rockwool fibers are chemically inert. With a chemically neutral pH value of 7-8 when tested as per BS-972 : Section 22. It will neither cause nor promote corrosion. A low chloride content enables these products to be used with austenitic stainless steel.

Fujairah Rockwool fibers are inorganic with the following chemical composition:

Silica	SiO ₂	≈	32.90%
Alumina	Al ₂ O ₃	≈	17.70%
Titanium Oxide	TiO ₂	≈	0.42%
Ferric Oxide	Fe ₂ O ₃	≈	7.60%
Calcium Oxide	CaO	≈	18.00%
Magnesium Oxide	MgO	≈	14.10%
Manganese Oxide	MnO	≈	0.08%
Sodium Oxide	Na ₂ O	≈	0.27%
Potassium Oxide	K ₂ O	≈	0.19%

Biological Properties

Rot-proof, non-hygroscopic, will not sustain vermin and will not encourage growth of bacteria, mold or fungi.

Chemical Neutrality

Chemically neutral with a pH value of 7-8 when tested in accordance with BS 2972 : Section 22. It will neither cause nor promote corrosion. It meets the requirements of ASTM C-795, the standard specification for thermal insulation for use in contact with austenitic stainless steel when measured according to standard methods of ASTM C-692 (Corrosion Test) and ASTM C-871 (Chemical Analysis). It contains low level of chlorides when tested in accordance with ASTM C-871, BS 2972 : Section 21 and AGI Q 135.

Physical Properties

Asbestos free with very low non-fibrous (shot) content when tested in accordance with ASTM C 1335 and BS 2972 : Section 14.

Handling and Application

Easy to cut, fit and handle, it is lightweight and can be cut into various shapes and sizes by knife.

Delivery Data

Placing Orders

The following specifications are to be indicated when placing orders:

- ◆ Types of Rockwool insulation required (i.e. blankets, boards/slabs, loose wool, preformed pipe section).
 - ◆ Insulation thickness in mm or inches.
 - ◆ Sizes such as length and width.
- ◆ For preformed pipe sections, mention outside diameter of pipe to be insulated.
 - ◆ Type of facing material required.
- ◆ The total area of slabs and blankets, total length for pipe sections and in terms of tons or kgs, for loosewool. Other orders can be expressed in tons.
- ◆ Special packaging and documentation if not based on our standard delivery.
 - ◆ Delivery schedule
 - ◆ Delivery site

Storage Requirements

Normally packed in shrink wrapped polyethylene or cardboard cartons for protection during short periods of time.

For longer periods of storage, we recommend products to be stored in an appropriate warehouse. When stored outdoors, care should be taken and see to it that the products are off the ground and covered against dampness.

Technical Advice

Our sales office can be contacted for any technical assistance or expert advice that you may require.

Fujairah Rockwool personnel shall only be glad to serve you.

Sale and Supply

Our products are delivered throughout the world.

Shipping charges overseas are computed via 20 or 40-foot containers.

We have trucks available for deliveries by land transport.

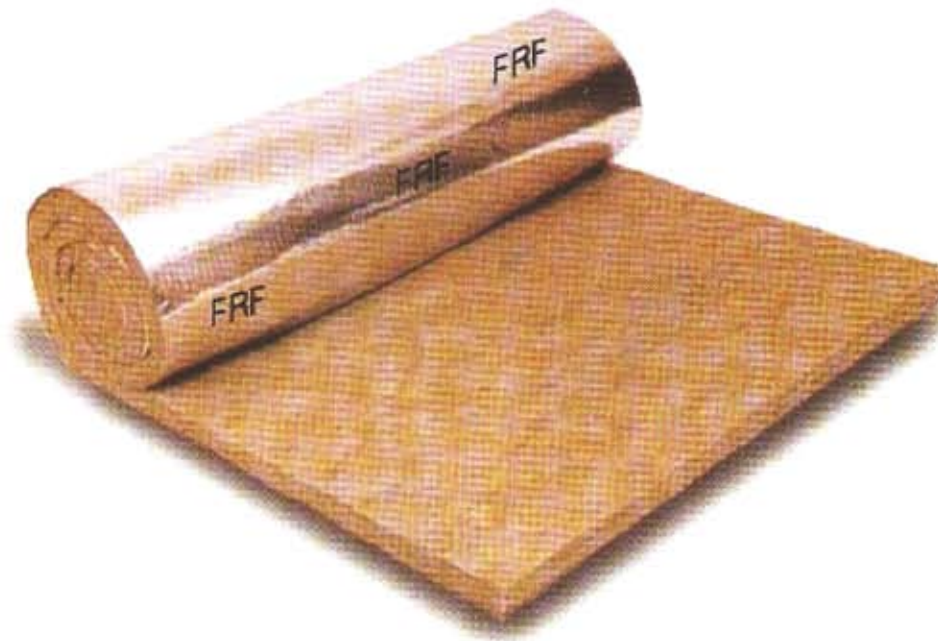
For prices and other sale conditions, please contact our sales offices.

Product Selector Guide

	Blanket	Slab	Loose Wool	Preformed Pipe Sections
<i>Thermal Insulation</i>				
Process Pipe Lines	▼			▼
Steam Pipe Lines	▼			▼
Heating Pipe Lines				▼
Tank Walls		▼		
Tank Roofs		▼		
Tank Roofs with traffic		▼		
Ovens	▼	▼	▼	
Heaters	▼	▼	▼	
Kilns	▼	▼	▼	
Domestic Boilers	▼	▼		
Steam Power Plants	▼	▼		
Heat Exchangers	▼	▼		
Turbines	▼		▼	
Chimneys/Stacks	▼	▼		▼
Cryogenic Tanks			▼	
Irregular Cavities			▼	
Round Ducts	▼	▼		▼
Rectangular Ducts	▼	▼		
<i>Building Insulation</i>				
External Walls	▼	▼		
Internal Walls	▼	▼		
Floors	▼	▼		
Flat Roofs	▼	▼		
Pitched Roof	▼	▼		
Doors		▼		
Ceilings	▼	▼		
Pipes/Ducts	▼	▼		▼
<i>Fire Protection</i>				
Pipe Lines	▼			▼
Steel Structures	▼	▼		
Round Air Ducts	▼			▼
Rectangular Air Ducts	▼	▼		
Fire Wall & Fire Door		▼		
Ship Decks & Bulkheads	▼	▼		
General Ships-Offshore	▼	▼	▼	
<i>Sound Abatement</i>				
Pipelines & Ducts	▼	▼		▼
Flat Surfaces	▼	▼		

This product selector is only a general guide to Fujairah Rockwool products and its applications. Fujairah Rockwool Sales Department will be happy to advise you on any particular application, whether listed or not.

Fujairah Rockwool Blankets



Fujairah Rockwool Blanket conforming to ASTM C-553 and ASTM C-665 is a lightly bonded insulating material available with or without facing. These products can be faced on one side or both sides to form a firm but flexible multi-purpose insulating materials.

Facings

Code	Description
O	"O" Class Aluminum foil
2	Reinforced aluminum foil
G	Black Ceiling Veil

Types

Code	Description
BXXX	Blanket without facing
B2XX – O	Blanket with "O" Class Aluminum foil facing on one side
B22X – O	Blanket with "O" Class Aluminum foil facing on both sides
B2XX	Blanket with Aluminum foil facing on one side
B22X	Blanket with Aluminum foil facing on both sides
BG4X	Blanket with Black Ceiling Veil on one side



Applications

Designed for thermal and acoustic insulation of various applications such as ducts and cladding or other equipment in heating, ventilating and air conditioning applications. Also recommended for use in the thermal insulation of large vessels, boilers, small machinery, equipment, flange, valves and plants operating at high temperatures. The Blanket is exceptionally suited for wrapping large curved surfaces or for cutting to fit over irregular shapes.

Standard Delivery

Standard Size (m)	Standard Thickness (mm)	Standard Density (kg/m ³)
1.2 x 5.0	30, 50, 75, 100	40, 60, 80
1.2 x 1.2	30, 50, 75, 100	100, 128

Other sizes and densities are available upon request.

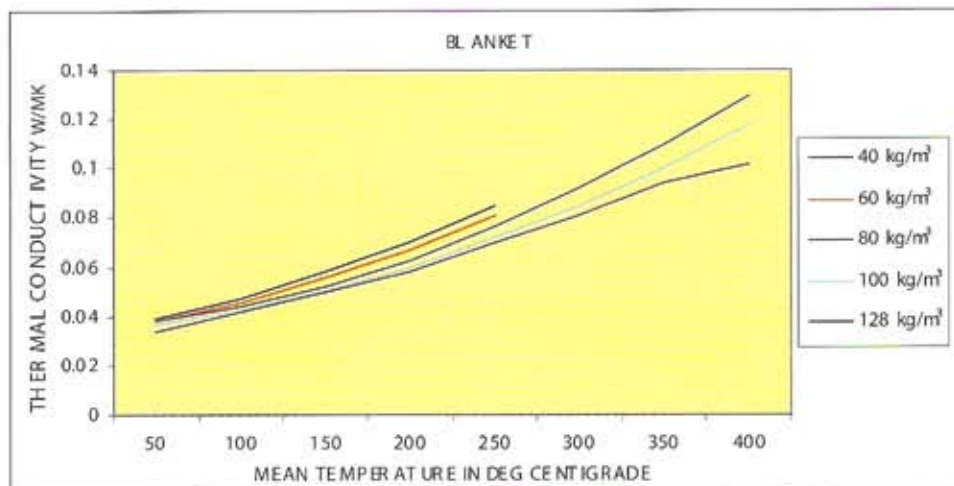
Thermal Conductivity

Fujairah Rockwool products show remarkably low thermal conductivity values.

Typical figures are shown in accordance with corresponding standards: ASTM C-177 / C-518 (ISO 8302 / ISO 8301), equivalent to BS 874 and DIN 52612 standards. We have test reports at 35°C mean temperature for 40 kg/m³ and 70 kg/m³ nominal densities and at different mean temperatures for 110 kg/m³ nominal density.

Mean Temp °C	k-value W/mK 40 kg/m ³	k-value W/mK 60 kg/m ³	k-value W/mK 80 kg/m ³	k-value W/mK 100 kg/m ³	k-value W/mK 128 kg/m ³
50	0.039	0.038	0.038	0.037	0.034
100	0.047	0.046	0.044	0.043	0.042
150	0.058	0.056	0.052	0.051	0.050
200	0.070	0.067	0.063	0.060	0.058
250	0.085	0.081	0.077	0.072	0.070
300	-	-	0.092	0.085	0.081
350	-	-	0.110	0.100	0.094
400	-	-	0.130	0.118	0.102

The table shows the results for their raw density in accordance with the test report. These results are not binding because they were converted.



Packaging

Supplied in polyethylene bags.

Unit Price

For details on price, our Sales Office can be contacted.

Technical Advice

For further details of information on technical data, specialist product information, applications, heat loss calculations or economic thickness, our Sales Office can be approached.

Fujairah Rockwool Wired Blankets



Fujairah Rockwool Blanket conforming to ASTM C-592 and equivalent BS 3958 Part 3 is a lightly bonded insulating material faced with hexagonal G.I. or S.S. wire mesh on one or both sides to form a firm but flexible multi-purpose insulating materials.

Facings

Code	Description
W	Wiremesh, G.I. or S.S.

Types

Code	Description
BWXX	Blanket with G.I. wiremesh support on one side
BWWX	Blanket with G.I. wiremesh support on both sides
BWSX	Blanket with Stainless Steel wiremesh support on one side
BWWS	Blanket with Stainless Steel wiremesh support on both sides

Applications

Highly recommended for use in the thermal insulation of large vessels, boilers, small machinery, equipment, ducts, flange, valves and plants operating at high temperatures. The Blanket is exceptionally suited for wrapping large curved surfaces or for cutting to fit over irregular shapes.

Standard Delivery

Standard Size (m)	Standard Thickness (mm)	Standard Density (kg/m ³)
1.2 x 4.0	30, 50, 75, 100	80, 100, 128

Other sizes and densities are available upon request.



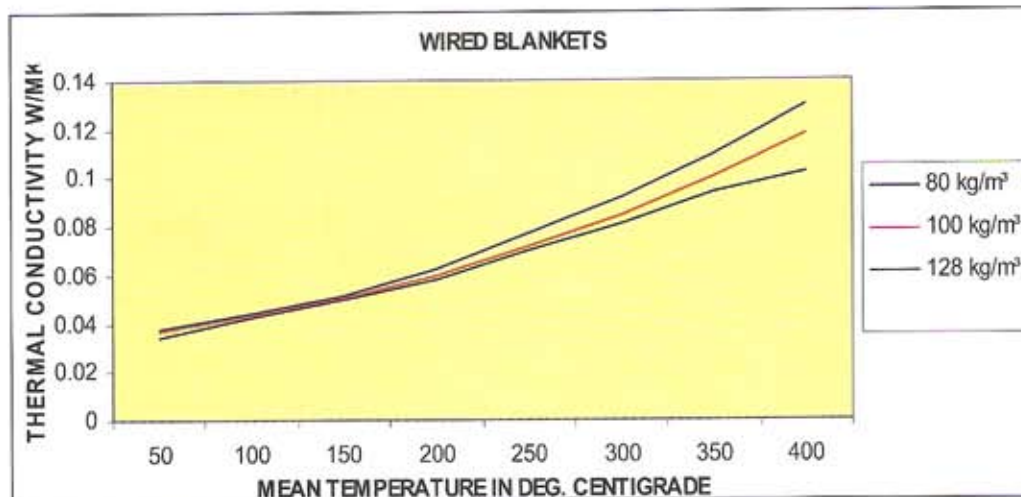
Thermal Conductivity

Fujairah Rockwool products show remarkably low thermal conductivity values. Typical figures are shown in accordance with corresponding standards: ASTM C-177 / C-518 (ISO 8302 / ISO 8301), equivalent to BS 874 and DIN 52612 standards. We have test reports at 35°C mean temperature for 40 kg/m³ and 70 kg/m³ nominal densities and at different mean temperatures for 110 kg/m³ nominal density.

Mean Temp °C	k-value W/mK 80 kg/m ³	k-value W/mK 100 kg/m ³	k-value W/mK 128 kg/m ³
50	0.038	0.037	0.034
100	0.044	0.043	0.042
150	0.052	0.051	0.050
200	0.063	0.060	0.058
250	0.077	0.072	0.070
300	0.092	0.085	0.081
350	0.110	0.100	0.094
400	0.130	0.118	0.102



The table shows the results for their raw density in accordance with the test report. These results are not binding because they were converted.



Packaging

Supplied in polyethylene bags.

Unit Price

For details on price, our Sales Office can be contacted.

Technical Advice

For further details of information on technical data, specialist product information, applications, heat loss calculations or economic thickness, our Sales Office can be approached.



Fujairah Rockwool Slabs



Fujairah Rockwool slabs conforming to ASTM C-612 and equivalent BS 3958 Part 5 are designed for the thermal and acoustic insulation of flat or slightly curved surfaces operating at both high and low temperatures. These slabs are produced from long, non-combustible resin bonded fibers. They are easy to cut, fit and handle. The robust fibers in the slabs combine high levels of thermal efficiency and acoustic absorption.

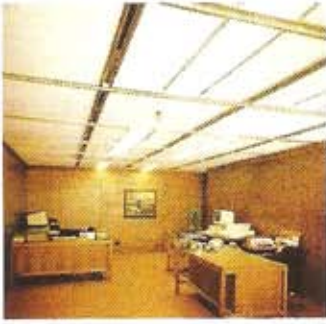
Facings

Code	Description
O	"O" Class Aluminum foil
2	Reinforced aluminum foil
G	Black Ceiling Veil

Types

Code	Description
SXXX	Slab without facing
S2XX	Slab with reinforced aluminum foil on one side
S22X	Slab with reinforced aluminum foil on both sides
S2XX – O	Slab with "O" Class Aluminum foil facing on one side
S22X – O	Slab with "O" Class Aluminum foil facing on both sides
SZXX	Slab sealed in Black Polyethylene bag
SG4X	Slab with Black ceiling veil on one side
SG44	Slab with Black ceiling veil on both sides
SG42	Slab with Black ceiling veil on one side and Aluminum foil facing on the other side

Applications



Designed for a wide range of applications, at both high and low service temperatures, and can be used on flat or slightly curved surfaces for thermal and acoustic insulation.

They are suitable for thermal insulation of ducts, tanks, large vessels, oven, furnaces, boilers and other industrial equipments as well as for cavity walls, curtain walls and sandwich panels.

It is also ideal for fire protection of steel structures and insulation of bulk heads and ship decks.

High density slabs are suitable for applications where high compressive strength is required and where the insulation is subjected to mechanical loads and vibration. They are ideal for traffic areas and insulation of tank roofs.

Standard Delivery

Standard Size (m)	Standard Thickness (mm)	Standard Density (kg/m ³)
1.2 x 0.6	50, 75, 100	30, 50, 80, 100, 140

Other sizes and densities are available upon request.

Thermal Conductivity



Thermal conductivity is the main product property of thermal insulation material and Fujairah Rockwool products show remarkably low thermal conductivity values.

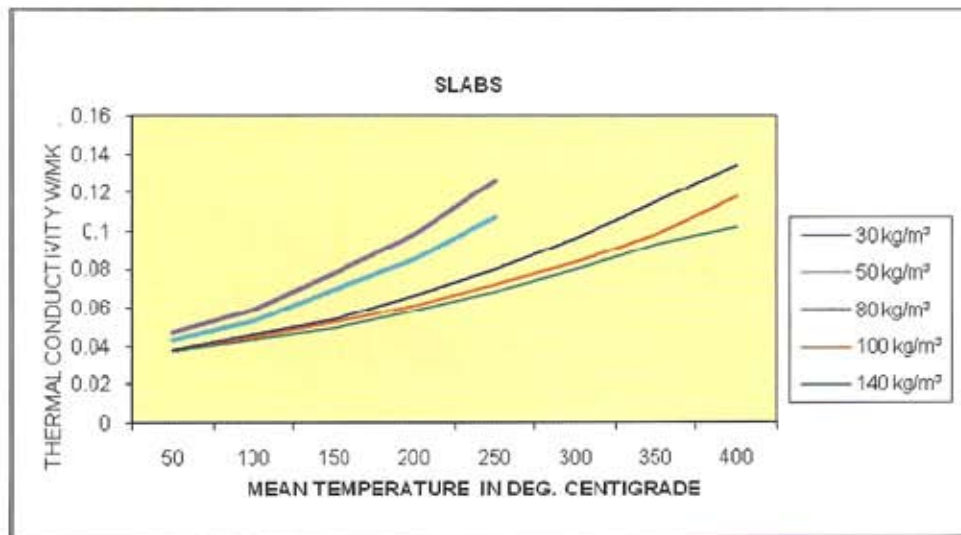
Typical figures are shown below in accordance with BS 874 : 1986, equivalent to ASTM C-177 / C-518 (ISO 8302 / ISO 8301) and DIN 52612.

We have test reports at 35°C mean temperature for 40 kg/m³ and 70 kg/m³ nominal densities and at different mean temperatures for 140 kg/m³ nominal density.

Mean Temp °C	k-value W/mK 30 kg/m ³	k-value W/mK 50 kg/m ³	k-value W/mK 80 kg/m ³	k-value W/mK 100 kg/m ³	k-value W/mK 140 kg/m ³
50	0.047	0.043	0.038	0.037	0.037
100	0.059	0.053	0.046	0.044	0.043
150	0.078	0.069	0.054	0.052	0.049
200	0.098	0.085	0.066	0.061	0.058
250	0.126	0.107	0.080	0.072	0.068
300	-	-	0.096	0.084	0.080
350	-	-	0.115	0.098	0.093
400	-	-	0.134	0.118	0.102

The table shows the results for their raw density in accordance with the test report.

These results are not binding because they were converted.



Acoustical Properties

Typical sound absorption figures are shown below in accordance with BS 3638 & ISO 0354 and equivalent ASTM C-423.

We have test certificate for 70 kg/m³ and 100 kg/m³ nominal densities.

The table shows the test results for their raw density in accordance with the test report.

These results are not binding because they were converted.

Hz	30 kg/m ³	50 kg/m ³	80 kg/m ³	100 kg/m ³	140 kg/m ³
125	0.22	0.22	0.23	0.23	0.22
250	0.60	0.62	0.64	0.66	0.66
500	0.86	0.88	0.98	1.05	1.05
1000	0.92	0.95	1.04	1.07	1.06
2000	0.99	1.02	1.03	1.05	1.01
4000	0.98	0.99	0.98	0.97	0.96

Note that components of the whole system should be considered for the Sound Absorption requirement.

Compression Resistance

Table below shows typical data of compression resistance in accordance with ASTM C-165.

We have a test report for 50 mm thick, 140 kg/m³ density at 10% compression.

% Compression	Load kPa		
	200 kg/m ³	160 kg/m ³	140 kg/m ³
1	6	4	2
2	12	8	4
3	18	12	8
4	24	16	10
5	30	20	12

The table shows the values for their raw density in accordance to test report.

These results are not binding because they were converted.



Packaging

Supplied in shrink wrapped polyethylene.

Unit Price

For details on price, our Sales Office can be contacted.

Technical Advice

For further details of information on technical data, specialist product information, applications, heat loss calculations or economic thickness, our Sales Office can be approached.

Fujairah Loose Wool



Fujairah Rockwool loose wool is bonded loose wool used for packaging cavities of irregular dimensions. The density of wool to be used depends on the thermal conductivity required. Thermal conductivity will be the same as other Fujairah Rockwool products of the same density.

Applications

Used for general purpose insulation, expansion relief, packing cavities of brickwork in furnaces, ovens and many other items of industrial equipment. It is also used for cavity packing in refrigerated cargoes, oxygen plants, valve boxes, automobile mufflers and other types of silencers. It is highly suitable especially where preformed insulation is difficult to apply.

Standard Delivery

Packed in 25 kg. bags. Other packaging weight is available upon request.

Thermal conductivity

The density of loose wool depends upon the compression resistance for a particular application. We have thermal conductivity test report at 35°C mean temperature for 40 kg/m³, 70 kg/m³ and 110 kg/m³ nominal densities. The following are typical figures of thermal conductivities:

Mean Temp °C	k-value W/mK 60 kg/m ³	k-value W/mK 80 kg/m ³
100	0.045	0.044
200	0.070	0.059
300	0.109	0.097
400	0.160	0.138

The table shows the results for their raw density in accordance with the test report. These results are not binding because they were converted.

Packaging

Supplied in polyethylene bags.

Unit Price

For details on price, our Sales Office can be contacted.

Technical Advice

For further details of information on technical data, specialist product information, applications, heat loss calculations or economic thickness, our Sales Office can be approached.

Fujairah Rockwool Preformed Pipe Section



Fujairah Rockwool Preformed Pipe section conforming to ASTM C-547 and equivalent BS 3958-4 is intended for the thermo-acoustic insulation and fire protection of pipe works operating at high temperatures.

The pipe insulation is manufactured from long non-combustible rock fibers with a high performance binder.

It is easy to cut, fit, handle and has levels of thermal efficiency and strength. Each section is split and hinged for easy, snap-on applications.

Designed for tough thermal and acoustic insulation pipe works, its combination of density, strength and excellent thermal conductivity at high operating temperatures offer efficient insulation.

It is highly applicable for industrial steam and process pipe lines in oil refineries, chemical plants and power stations. It also has the versatility to be used in heating and ventilating or other non-industrial applications.

Facings

This product can be faced with aluminum foil.

Types

Code	Description
CXXX	Unfaced pipe section
C2XX	Pipe section with Aluminum foil facing



Standard Delivery

Nominal Pipe Size (inches)	Fujairah Rockwool Preformed Pipe Section Inner Diameter (mm)	Standard Thickness (mm)	Standard Density (kg/m ³)
½	21		
¾	27		
1	34		
1 ¼	42		
1 ½	48		
2	60		
2 ½	76		
3	89		
4	114		
5	140		
6	168	50, 75, 100	100, 128
8	219		
9	245		
10	273		
12	324		
14	356		
16	406		
18	456		
20	508		
22	556		
24	610		

For higher pipe sizes, beveled layers are available upon request.

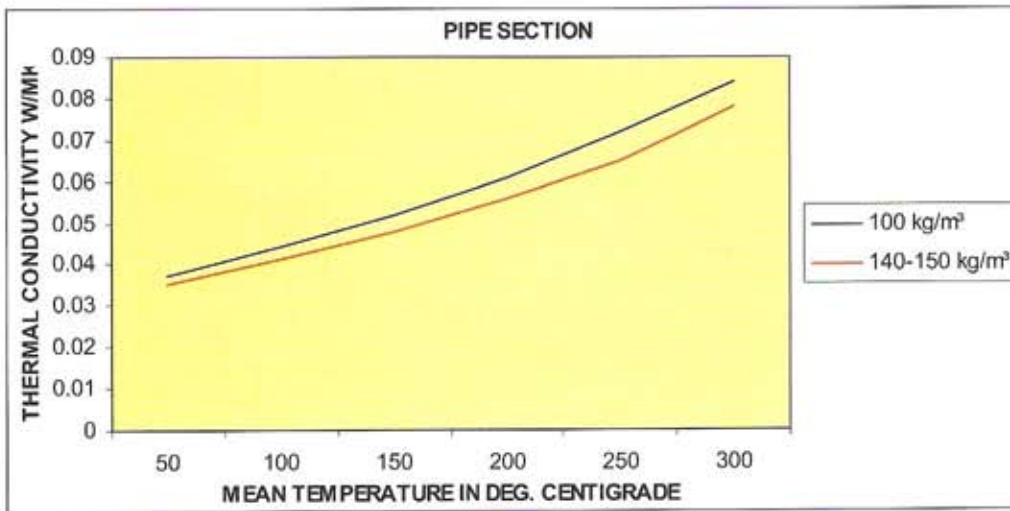
Thermal conductivity

Fujairah Rockwool Preformed Pipe Section shows remarkably low thermal conductivity values. Typical figures are shown in accordance with ASTM C-335. We have test report at different mean temperatures for 140 kg/m³ nominal density.



Mean Temp °C	k-value W/mK 100 kg/m ³	k-value W/mK 140-150 kg/m ³
50	0.037	0.035
100	0.044	0.041
150	0.052	0.048
200	0.061	0.056
250	0.072	0.065
300	0.084	0.078

The table shows the results for their raw density in accordance with the test report. These results are not binding because they were converted.



Packaging

Supplied in cardboard cartons and shrink wrapped polyethylene.

Unit Price

For details on price, our Sales Office can be contacted.

Technical Advice

For further details of information on technical data, specialist product information, applications, heat loss calculations or economic thickness, our Sales Office can be approached.



Partial List of Projects

PROJECT NAME	PLACE
Amenas Gas Project	Algeria
Brisbane Wharf Development Project	Australia
Cawse Nickel Project	Australia
Olympic Dam Expansion Project	Australia
Phosphate Hill Queensland Project	Australia
Queensland Fertilizer Project	Australia
4 Units of HRSG, Alba Power Station 4	Bahrain
Al Hidd Power & Water Production Facility	Bahrain
Alba Power Station	Bahrain
Bahrain Refinery	Bahrain
Alba Bahrain, Coke Calcination Project-CCT Scope	Bahrain
Beilungang Thermal Power Plant	China
Cartago Plant - Modernization & Expansion Project	Costa Rica
S138-Embilipitiya Power Project	Colombo
Ethylene Plant at America, Alexandria	Egypt
Kahromika	Egypt
Suez Steel Factory	Egypt
Talkha Power Station	Egypt
San Stefano Complex	Egypt
4th Aromatics Project, Assoulyeh	Iran
ASCAP Project, Assoulyeh	Iran
PTA II Project, Shahid Tond Gouian Petrochemical	Iran
Southpars 1, 2, 3 & 4	Iran
Darquain Oil Field Development Project	Iran
Bina Power Plant	India
GVK Jegurupadu 235 MW CCPP, Vishakhapatanam	India
Jamnagar Refinery Project	India
Balongan Blue Sky Project	Indonesia
Baturaja Cement Project	Indonesia
Darajat Geothermal Power Plant	Indonesia
GSG Project	Indonesia
Justus - Indonesia	Indonesia
Baija Petrochemical Plant	Iraq
NJFC Aqaba NPK Fertilizer Project	Jordan
Tengizchevroil Asset Development Project	Kazakhstan
Az - Zour South Distillation Plants	Kuwait
GRTA & AGRP Contracts for KNPC	Kuwait
KNPC - Mina Abdulla and Shuaiba Refinery	Kuwait
Kuwait Power Plant Project	Kuwait
Sabiya Power Plant Project	Kuwait
Four Seasons Hotel, Damascus	Lebanon
ABC Stores, Lebanon	Lebanon
Ankara Power Plant, Turkey	Lebanon
Tula Cement Plant Project	Mexico
Bintulu Sarawak, Malaysia	Malaysia
Eastman Chemical Copolymer Project	Malaysia
Bintulu LPG Project	Malaysia
MMDF Miri Project	Malaysia
Paka Power Plant Station	Malaysia
Lafarge Cement Plant	Morocco
OKPAI Power Plant	Nigeria
Soku	Nigeria
Oman Cement Plant	Oman
Oman Refinery	Oman
Fauji Kabirwala Power Co., Ltd.	Pakistan
Pakistan Power & Development	Pakistan
Parco Mid - Country Refinery Project	Pakistan
Siemens/OGDC Qadirpur Project Power Station	Pakistan
Zimmer AG - Novatex	Pakistan

Partial List of Projects

PROJECT NAME	PLACE
Continental Cement Corporation	Philippines
Quezon Power Station	Philippines
Wooltech Industrial Sales	Philippines
Dolphin Project	Qatar
Dukhan Arab 'D' Gas Recycling Project 2	Qatar
QAFC Methano / MTBE	Qatar
Qafco Shutdown Project	Qatar
Weill Cornell Medical College	Qatar
Chevron Project	Saudi Arabia
Hawiyah Gas Plant Project	Saudi Arabia
IBN RUSHD Yanbu PTA & Utilities Project	Saudi Arabia
Kemys Olefins Plant Project	Saudi Arabia
Madina - Yanbu Power Desalination Plant	Saudi Arabia
Makkah Taif Power Plant	Saudi Arabia
MMG Various Projects	Saudi Arabia
Modernization of Cement Milling Plant Project-5	Saudi Arabia
Olefin Plant 3 - Arabian Petrochem., Petrokemya	Saudi Arabia
Qurayyah Power Plant	Saudi Arabia
Rabigh Steam Power Plant - Stage III	Saudi Arabia
Safco II Ammonia / Urea Plant	Saudi Arabia
Saudi Arabian Desalination Plant, Al Khobar	Saudi Arabia
Sceco Central PP9, Riyadh Power Plant	Saudi Arabia
Shoiba Power Plant	Saudi Arabia
Sulfur Recovery Project for Saudi Aramco	Saudi Arabia
Yanpet Expansion Project	Saudi Arabia
PP2-IBN-Zahr Petro - Chemical Project	Saudi Arabia
Tuas South Incineration Plant Contract III	Singapore
Khartoum Power Plant	Sudan
Hsin - Chu Incinerating Plant Project	Taiwan
T & C Tower Project	Taiwan
Taichung Power Station	Taiwan
Thai Manning Project	Taiwan
Tun Tex Tower Project	Taiwan
AA Pulp Mill 2 Project	Thailand
BOI Project	Thailand
LG / VCM Expansion Project	Thailand
Lube Base Oil Power Plant	Thailand
MHI / Egat Wang Noi C / C Stage II	Thailand
Ain M' Dhakker Cement Plant	Tunisia
Adnoc - OGD Phase II Project	U.A.E.
Al Taweelah Power & Desalination Plant	U.A.E.
Asab Gas Development Project	U.A.E.
Aweer Power Station	U.A.E.
Bechtel Borouge, Ruwais	U.A.E.
Borouge Petrochemical Project, Ruwais	U.A.E.
C-2033 Asab Gas Development Project	U.A.E.
Enoc Condensate Processing Plant	U.A.E.
Gasco Ruwais Upgrade Facility Project	U.A.E.
Habshan Refinery Project	U.A.E.
Jebel Ali Power & Desalination Plant (6 Plants)	U.A.E.
Taweelah Power Plant Stage "B"	U.A.E.
Taweelah A2 Power & Water Project, Water Plant	U.A.E.
ACH, Nestle, P & G	Vietnam
Bourbon Sugar, P1275, 1507	Vietnam
Electricity of Vietnam Management Board of PHU MY4	Vietnam
Hitachi Zosen	Vietnam
Kien Giang Sugar Plant	Vietnam
Metropolitan Tower, Est 1480	Vietnam

Registration Certificate



BM TRADA certify that the Quality Management System of

Fujairah Rockwool Factory

P.O. Box 211
Fujairah
United Arab Emirates

meets the requirements of ISO 9001:2008
and is registered within the BM TRADA certification scheme

The client agrees to maintain their management system to continually meet the requirements of ISO 9001:2008
and use the logo and certification mark in accordance with BM TRADA regulations

Scope of Certification

Manufacturing of Rockwool (Mineral Fiber) Insulation Materials

A handwritten signature in black ink, appearing to read "DAVID E. PALMER".

Signed on behalf of BM TRADA Certification Ltd
Stocking Lane, Hughenden Valley, High Wycombe,
Buckinghamshire. HP14 4ND

Further clarifications regarding the scope of this certificate and the applicability of ISO 9001:2008 requirements and verification of this certificate is available from BM TRADA at the above address or by enquiries through www.bmtrada.com

This certificate remains the property of BM TRADA Certification Ltd to whom it must be returned on request



Certificate Number
1187

Date of Initial Registration
16 January 2001

Date of Last Issue
4 February 2010

Date of expiry
9 December 2012



1 012

The use of the accreditation mark indicates accreditation in respect of those activities covered by the accreditation certificate 012.



FUJAIRAH ROCKWOOL FACTORY
(Subsidiary of Fujairah Building Industries P.S.C "FBICO")

FRF

مصنع الفجيرة للصوف الصخري
(تابع لشركة الفجيرة لصناعات البناء ش.م.ع.)

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Certificate Number 1187