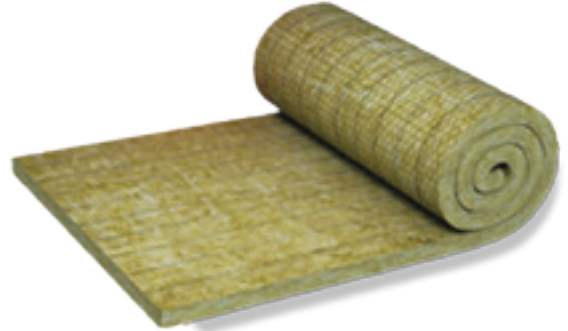




ROCKWOOL

ROCKWOOL BLANKETS

UNIPRO 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.

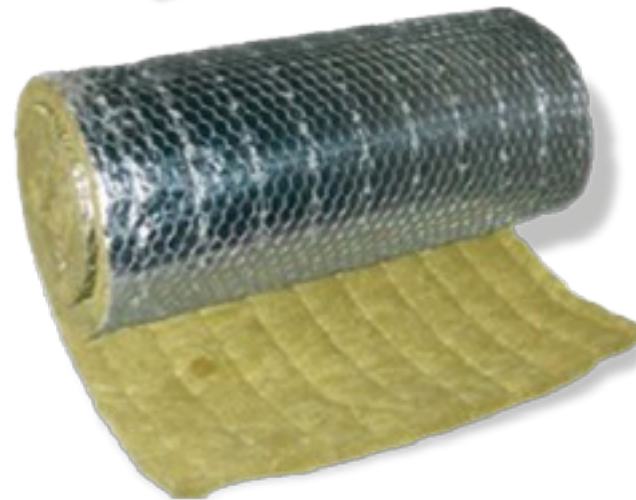


FACINGS

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

TYPES

Code	Description
BXXX	Blanket without facing
B2XX Class – O	Blanket with "O" Class Aluminum foil facing on one side
B22X Class – 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	100,75,50,30	80,60,40
1.2 x 1.2	100,75,50,30	128,100

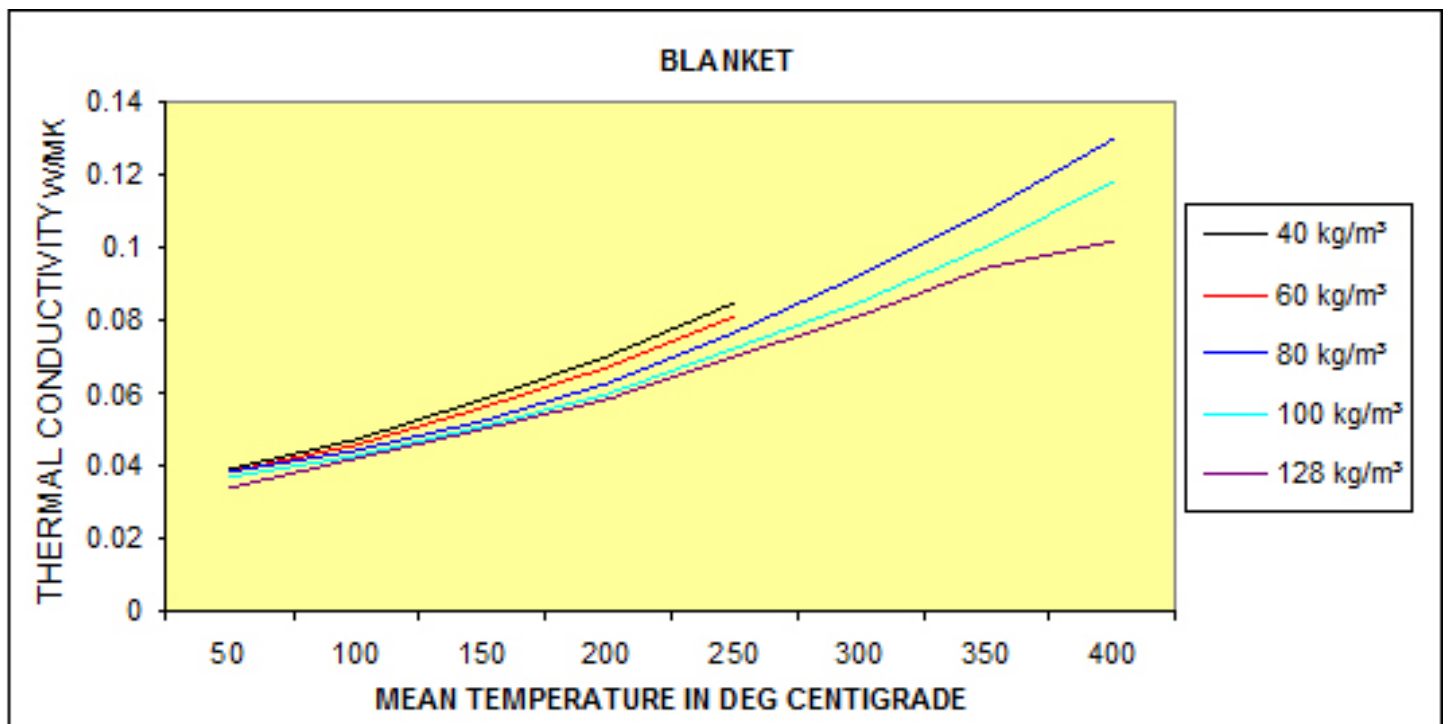
Other sizes and densities are available upon request.

THERMAL CONDUCTIVITY

UNIPRO 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.

ROCKWOOL SLABS

UNIPRO 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 Class – O	Slab with "O" Class Aluminum foil facing on one side
S22X Class – 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

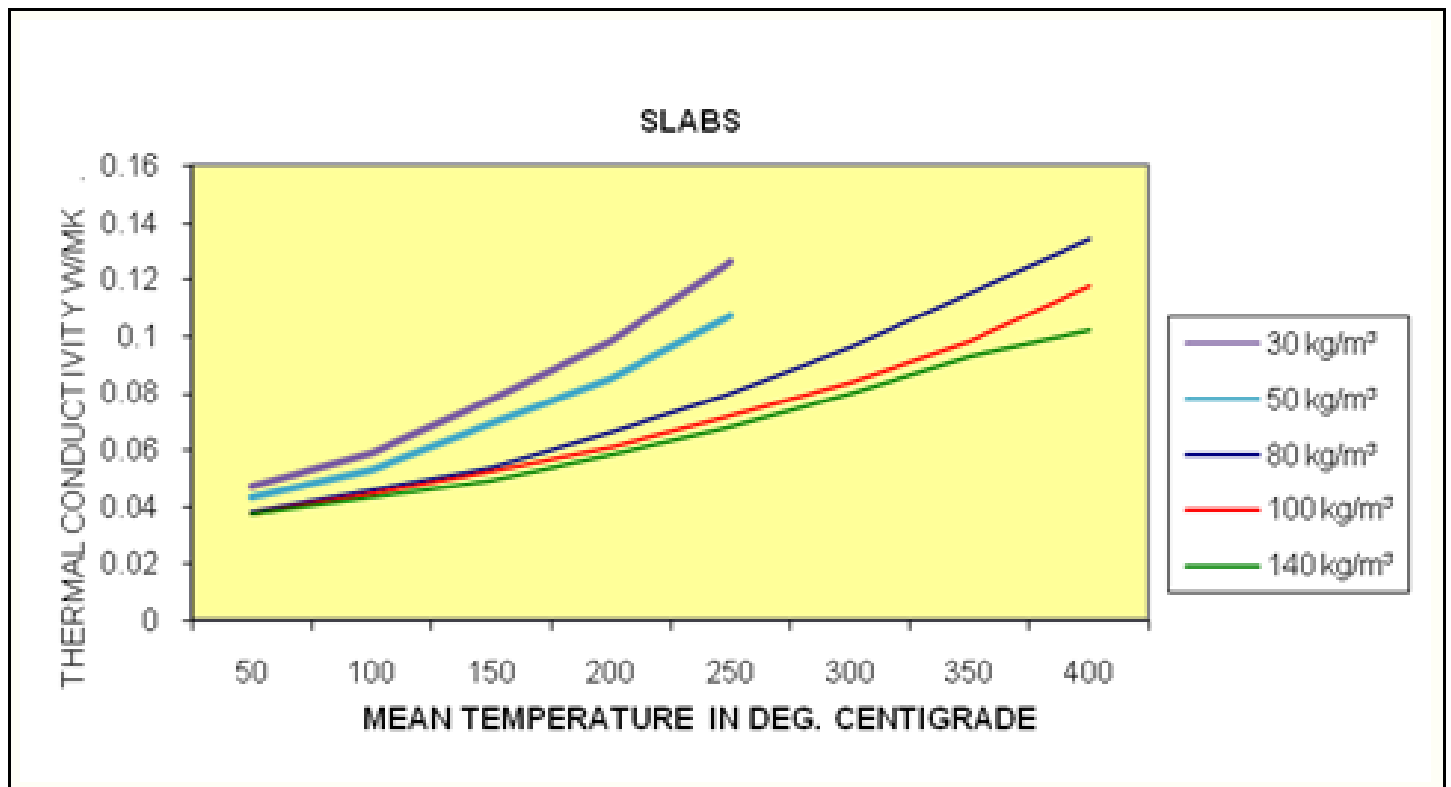
Other sizes and densities are available upon request.

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 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	0.047	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

ROCKWOOL PREFORMED PIPE

UNIPRO 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

PIPE SECTION		
20	CXXX	Pipe Section without Facing
21	C2XX	Pipe Section with Aluminium Foil Facing

TYPES

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



STANDARD DELIVERY

Nominal Pipe Size (inches)	UNIPRO 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		

Other sizes and densities are available upon request.

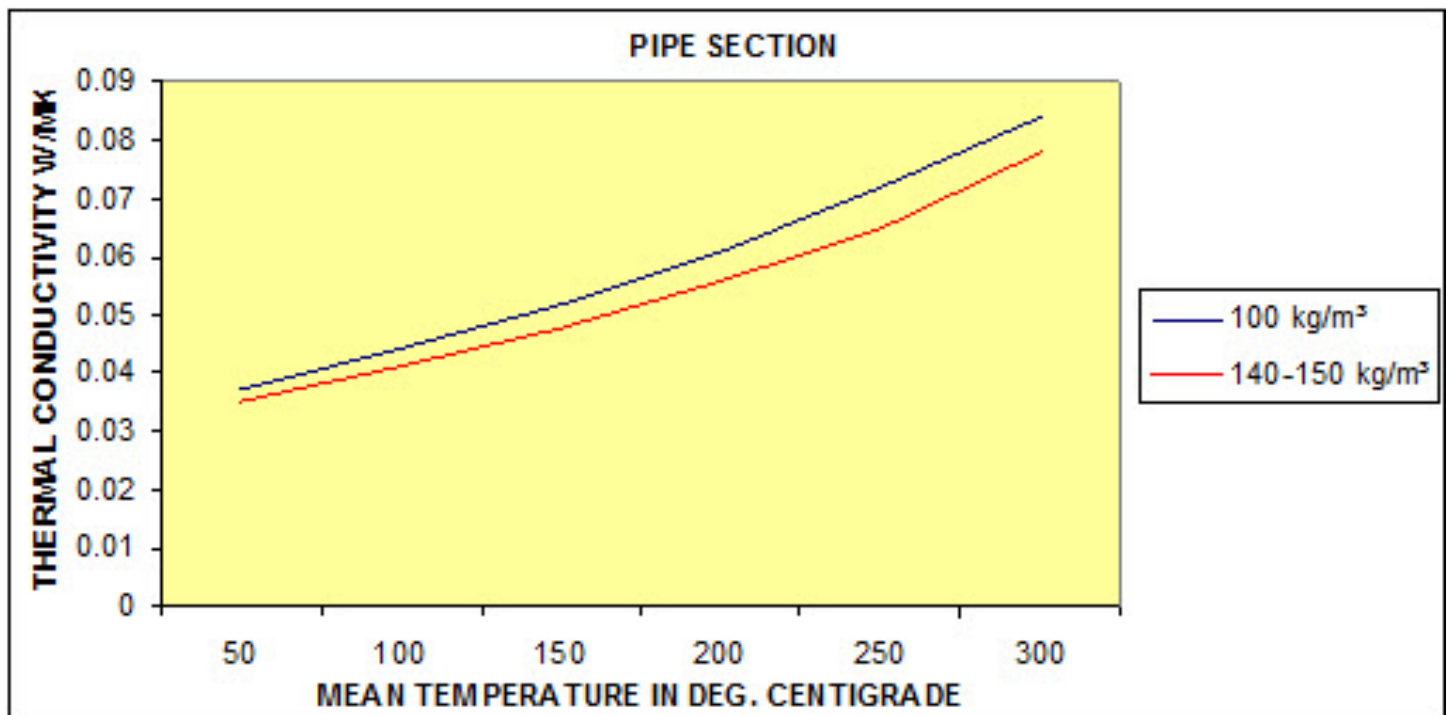


THERMAL CONDUCTIVITY

UNIPRO 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.

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