

AUSTRALASIAN INSULATION SUPPLIES PTY LTD

Product:	ROXUL® Rock(stone)wool	P.D.S
Type:	LIGHT-WEIGHT SEMI-RIGID SLAB	17
Name:	RockTech S 400 (for use up to 650°C)	Page 1 of 4

Description

ROXUL RockTech S 400 is a high quality resin-bonded light-weight semi-rigid mineral wool slab with excellent thermal, acoustic and fire safety properties.

Applications for RockTech S 400 are thermal and acoustic insulation on boilers, vessels, tanks, hot ducts, where both medium temperatures and mechanical vibration are present.

Standard Sizes (mm)

Thickness	Dimensions	Slab Per Pack
25	1200 x 600	12
38	1200 x 600	8
50	1200 x 600	6
75	1200 x 600	4
100	1200 x 600	3

All these sizes are available to order. Special sizes and facings are available to order but may be subject to minimum production quantity requirements.

Product Performance and Properties

> 100 kg/m³ (nominal):- being delivered density according Density:

to ASTM C612 - 93

Service Temperature: Maximum continuous service temperature on plain surface

650°C (1202°F) according to ASTM C411.

Thermal Conductivity (typical data): Tested in accordance with DIN 52612.

Mean Temp °C	50	100	150	200	250	300	350
K value W/m °C	0.040	0.045	0.053	0.063	0.075	0.089	0.106

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PRODUCT DATA SHEET

REVISION 6 (23 July 2013) DATE OF ISSUE: Nov 02

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Corrosion Resistance: Chemical Neutrality:

RockTech S 400 is chemically neutral and will

neither cause nor promote corrosion.

Corrosion Resistance: Water Leachable Chlorides: RockTech S 400 mineral wool has a very

low content of water leachable chloride, less than 6 ppm so it can be safely used on austenitic stainless steel. Meets the requirements for use over stainless steel in accordance

with ASTM C795.

Fire: Roxul RockTech S 400 slab is non combustible when

tested according to international standards eg. ASTM E-

136-82, DIN 4102, BS476 Pt4-1970, ISO R 1182.

Moisture Resistance Water: Roxul RockTech S 400 is highly water repellent, non-

hygroscopic and non capillary. The water repellency is in accordance with BS 2972 (total immersion) is >96% (vol.). RockTech S 400 is water repellent in accordance with AGI

Q 136.

Moisture Resistance Vapour Diffusion: Water vapour diffusion resistance factor of $\mu = 1.3$. This

low value means that water can pass through and cool

without condensing.

Moisture Resistance: Absorption from the air:

Rock(stone)wool absorbs very little water from the air. Tests show at relative humidity of 90% for 30 days the

hygroscopic water content is around .004 volume per cent. The water vapour absorption (vapor sorption) in

accordance with ASTM C110 4/C 1104 m is \pm 0.02% (vol).

Moisture Resistance Capillarity: Rock(stone)wool fibres and fibre coating repels water and

prevents capillarity.

Melting Point: Melting point of Rock(stone)wool fibre is over 1000°C

(1800°F)

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Specific Heat: Rock(stone)wool specific heat factor is 0.84 kJ/kg per

degree centigrade.

Calorific Value: RockTech S 400 has a low organic matter content giving a

low caloric value of around 600 kJ/kg.

RockTech S 400 material contains no nutrients and **Biological Properties:**

therefore provides no basis for growth of fungi, moulds or

bacteria, nor does it attract insects, rodents or vermin.

Acoustic Properties: RockTech S 400 minerals wool base material when

measured according to ASTM - C423 - 90a at a thickness

of 50 mm gives the following:

Hz	125	250	400	500	800	1000	2000	4000	NRC
Coeff α S	0.54	0.81	1.06	1.10	1.15	1.10	1.03	1.01	1.03

Durability: Rock(stone)wool has been proven in services for over 50

> years in all types of exposure and as such will give effective protection for the lifetime of the equipment they

insulate.

Compatibility: Rock(stone)wool is compatible with all materials which it is

likely to come into contact in normal industrial and building

applications.

Environment: Rock(stone)wool presents a very effective ecological profile

in all elements of manufacture, recycling use, service life and energy efficiency of material. No CFC's or HCFC's are

used in its manufacture.

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Health & Safety

RockTech S is NOT CLASSIFIED as HAZARDOUS according to NOHSC criteria as a consequence of the following events and conclusions about the health effects of long term occupation exposure to mineral wool insulation products.

- Over 50 years of extensive health research rock(stone)wool products in Europe has resulted in the scientific conclusion that there are no long term health problems from using rock(stone)wool.
- In March 1995 the UK Health and Safety Executive concluded that Rockwool should not be classified as a potential carcinogen.
- Under note Q of the National Occupational health and Safety Commission (NOHSC) publication "List of Designated Hazardous Substances" (NOHSC; 1005-1999) the classification of NON-CARCINOGENIC is to apply.
- Under the European Union Criteria set out in 67/548/EEC a classification of CARC, Cat O applies, ie; "Not classifiable for carcinogenicity."
- Under World Health Organisation (WHO) and its Monographs Programme of the International Agency for Research on Cancer (IARC) it has been concluded that, "Rock (stone) wool are now considered not classifiable as to carcinogenicity to humans (Group 3),

It is recommended that for the handling and installation of rock(stone)wool the internationally recognized Material Safety Data Sheet be followed. These are readily available from Australasian Insulation Supplies Pty Ltd.

Technical Advice and Thermal Calculation Service: Heat transfer calculation for RockTech S insulation systems in thermal design is readily available. AIS technical advisers are ready to give help and advice on any matter connected with insulation or products manufactured by ROXUL.

For further information and technical advice on insulation contact:

AUSTRALASIAN INSULATION SUPPLIES PTY LTD 56 CUTLER ROAD, JANDAKOT, WA 6164 A.C.N: 0006 912 885

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