

Product:	<b>Roxul<sup>®</sup> Stonewool</b>	<b>P.D.S 22</b>
Type:	<b>HEAVY WEIGHT FLEXIBLE BLANKET</b>	
Name:	<b>Rox-foil 500 (for use up to 650<sup>o</sup> C)</b>	Page 1 of 4

<b>Description</b>
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Roxul Rox-foil 500 is a high quality resin-bonded heavy-weight blanket with a reinforced foil facing resin bonded to one surface with excellent thermal, acoustic and fire safety properties.

Applications for Roxul Rox-foil 500 are primarily for higher temperature thermal insulations, for general acoustic applications and where a more robust product is required. As a general rule flexible blankets should not be used for insulating piping. Wired mattress products or pipe sections are preferred products in this application.

Standard Sizes (mm)

Thickness	Rox-foil 500	Slabs 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 sized are available to order. Special sizes are also available to order but maybe subject to minimum production quantity requirements.

<b>Product Performance and Properties</b>
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**Density:** > 120 kg/m<sup>3</sup> being delivered density (nominal) according to ASTM C612 - 93

**Service Temperature:** Maximum continuous service temperature on plain surface up to 650 (1202°F) according to ASTM C411. Facing has a limiting temperature of 180°C.

**Thermal Conductivity (declared):** Tested in accordance with DIN 52612

Mean Temp °C	50	100	150	200	250	300	350
K value W/m. K	0.038	0.043	0.050	0.059	0.069	0.081	0.098

**Corrosion Resistance:** Roxul Rox-foil 500 base mineral wool is chemically neutral and will neither cause nor promote corrosion.  
**Chemical Neutrality:**

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**Corrosion Resistance:  
Water Leachable Chlorides:** Roxul Rox-foil 500 base 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 Rox-foil 500 Slab is non combustible when tested according to international standards e.g. ASTM E-136-82, DIN 4102, BS476 Pt4-1970, ISO 1182.

**Moisture Resistance Water:** Roxul Rox-foil 500 is highly water repellent, non hygroscopic and non capillary. The water repellency is in accordance with BS 2972 (total immersion) is >96% (vol.). Roxul Rox-Skin 500 water repellency in accordance with AGI Q 136 is  $\geq 99\%$  (vol).

**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:** Roxul Stonewool 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 C1104 is  $\leq 0.02\%$  (vol).

**Moisture Resistance Capillarity:** Roxul Rox-foil 500 fibres, and fibre coating, repels water and prevents capillarity.

**Melting Point:** Melting point of Roxul Stonewool fibre is over 1000°C (1800°F)

**Specific Heat:** Rockwool specific heat factor is 0.84 kJ/kg per degree centigrade.

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**Calorific Value:**

Roxul Rox-foil 500 has a low organic matter content giving a low calorific value of around 600 kJ/kg.

**Biological Properties:**

Roxul Rox-foil 500 material contains no nutrients and therefore provides no basis for growth of fungi, moulds or bacteria, nor does it attract insects, rodents or vermin.

**Acoustic Properties:**

Roxul Rox-foil 500 mineral wool base material when measured according to ISO 354 and applied directly to the wall surface at a thickness of 50 mm gives the following sound absorption coefficients:-

H <sub>z</sub>	125	250	500	1000	2000	4000
Coefficient	0.23	0.74	1.14	1.11	1.05	1.05

**Durability:**

Roxul Stonewool 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:**

Roxul Stonewool is compatible with all materials which it is likely to come into contact in normal industrial and building applications.

**Environment:**

Roxul Stonewool 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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<b>Health &amp; Safety</b>
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**Rox-foil Blanket 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 on Rockwool products in Europe has resulted in the scientific conclusion that there are no long term health problems from using Rockwool.
- 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 Roxul Rockwool 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 Roxul Rox– foil 500 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<sup>®</sup>

For further information and technical advice on insulation contact:



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