

Product:	ROXUL® STONEWOOL	P.D.S 36
Type:	LOOSE FILL INSULATION	
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Description

Roxul Loose Fill 000 is a lightly bonded stonewool, packed slightly compressed and is particularly suitable for thermal and acoustic insulation of voids, cavities and irregular shaped constructions. Voids should be packed without leaving air-spaces between the hot surface and the insulation.

Standard Size:
Polyethelene Bags – 20 kg each

Product Performance and Properties

Density: Normally determined by the level of packing. Typical packing density target is 100 kg/m³.

Thermal Conductivity: Tested in accordance with DIN 52612 (Packed density approx 100 kg/m³)

Mean Temp °C	50	100	200	250	300
K value W/mK	0.039	0.045	0.062	0.074	0.083

Service Temperature: Roxul Loose Fill 000 can be used to insulate hot surfaces up to 750°C in accordance with ASTM C411, depending on insulation thickness, mechanical load, vibration levels and packing density. Also of particular importance is the classification temperature according to German Industrial Standard AGI Q 132. The classification temperature is determined by testing the change in thickness in relation to temperature and time according to DIN 52271 section 6b. The classification temperature is the temperature at which the decrease in thickness under a load of 1kN/m² after 24 hours of exposure is less than 2%. The classification temperature according to AGI Q 132 of Roxul Loose Fill 000 is 550°C at a packing density of approx. 100 kg/m³.

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**Corrosion Resistance:
Chemical Neutrality:**

Roxul Loose Fill 000 insulation is chemically neutral and will neither cause nor promote corrosion.

**Corrosion Resistance:
Water Leachable Chlorides:**

Roxul Loose Fill 000 insulation has a very low content of water leachable chloride, approximately 4 ppm so it can be safely used on austenitic stainless steel. Meets the requirements for use over stainless steel in accordance with ASTM C795 and of "AS-Quality" of AGI Q135.

Fire:

Roxul Loose Fill 000 insulation is non-combustible when tested according to international standards e.g. ASTM E-136-82, DIN 4102, BS476 Pt4-1970 and ISO 1182.

Moisture Resistance Water:

Roxul Loose Fill 000 insulation is highly water repellent, non hygroscopic and non capillary. When tested to BS 2972 Section 12 Roxul Loose Fill 000 absorbs approximately >90% by volume of moisture (complete immersion test).

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 C110 4/C 110 M is $\pm 0.02\%$ (vol).

Moisture Resistance Capillarity:

Roxul® Stonewool fibres and fibre coating repels water and prevents capillarity.

Melting Point:

Melting point of Roxul® Stonewool fibre is over 1000°C (1800°F)

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Specific Heat: Roxul Loose Fill 000 specific heat factor is 0.84 kJ/kg per degree centigrade.

Calorific Value: Roxul Loose Fill 000 insulation has a low organic matter content giving a low caloric value of around 600 kJ/kg.

Biological Properties: Roxul Loose Fill 000 material contains no nutrients and therefore provides no basis for growth of fungi, moulds or bacteria, nor does it attract insects, rodents or vermin.

Durability: Roxul mineral 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: 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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Health & Safety

Roxul Loose Fill 000 Insulation 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® Stonewool that the 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 Loose Fill 000 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

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