

Stonewool Insulation for Thermal, Acoustic and Fire Safety Applications in Industries



ROCKINSUL Pipe Section

ROCKINSUL Pipe Sections

ROCKINSUL Pipe Sections are made from non-combustible, inorganic rock fibres and are suitable for the insulation of small and large diameter heating and ventilation pipes.

Standard Dimensions and Densities

| Density (kg/m ³) | Pipe Size (Norm. Bore) | | Pipe Insulation ID (mm) | Thickness (mm) | | Length (mm) |
|------------------------------|------------------------|-------|-------------------------|----------------|------|-------------|
| | inch | mm | | min. | max. | |
| 100, 128, 130, 136, 144 | 1/2 | 15 | 21.3 | 25 | 100 | 1200 & 1250 |
| | 3/4 | 20 | 26.7 | 25 | 100 | |
| | 1 | 25 | 33.4 | 25 | 100 | |
| | 1 1/4 | 32 | 42.2 | 25 | 120 | |
| | 1 1/2 | 40 | 48.3 | 25 | 120 | |
| | 2 | 50 | 60.3 | 25 | 120 | |
| | 2 1/2 | 65 | 73 | 25 | 100 | |
| | 3 | 80 | 88.9 | 25 | 150 | |
| | 3 1/2 | 90 | 101.6 | 25 | 100 | |
| | 4 | 100 | 114.3 | 25 | 150 | |
| | 5 | 125 | 139.7 | 25 | 150 | |
| | 6 | 150 | 168.3 | 25 | 150 | |
| | 6 1/2 | 175 | 188 | 25 | 120 | |
| | 8 | 200 | 219.1 | 25 | 150 | |
| | 10 | 250 | 273.1 | 25 | 150 | |
| | 12 | 300 | 323.9 | 25 | 120 | |
| | 14 | 350 | 355.6 | 25 | 100 | |
| | 16 | 400 | 406.4 | 25 | 75 | |
| 18 | 450 | 457.2 | 25 | 25 | | |

Facing Types

ROCKINSUL Pipe Sections are available unfaced or with a facing of - glass fibre reinforced Aluminium foil / Kraft paper laminate (FSK), and ALG.

PERFORMANCE

Working Temperature

ROCKINSUL Pipe Sections can be used at temperatures up to 750 °C.

Thermal Performance

ROCKINSUL Pipe Sections have a thermal conductivity of 0.034 W/m.K at 25 °C mean temperature.

Fire Safety Performance

Unfaced ROCKINSUL Pipe Sections are non-combustible when tested in accordance with IS 3144, BS 476 (part 4), ISO 1182 and ASTM E136 and are classified as Class A1, in accordance with European norms.

Unfaced, FSK and ALG-faced ROCKINSUL Pipe Sections have the following fire safety rating achievements:

1. Class 1 surface spread of flame in accordance to BS 476 (part 7)
2. Class 0 in accordance to the BS 476 (part 6 & 7) and to British Building Regulations.
3. Surface burning characteristics in accordance to ASTM E84 / UL 723

- a. Fire Spread Index : Less than 25
- b. Smoke Developed Index : Less than 50



Moisture Absorption Performance

ROCKINSUL Pipe Sections absorb less than 1% by volume when tested in accordance with BS 2972, ASTM C1104 / 1104 M, and do not absorb moisture from ambient air or from water by capillary action. Only water under pressure can enter into Stonewool insulation products; however, it quickly dries out due to the open cell structure of ROCKINSUL Pipe Sections.

When tested in accordance with ASTM E96, FSK-faced Pipe Sections achieve water vapour permeability of ≤ 0.02 per, ALG-faced Pipe Sections achieve zero water vapour permeability.

Installation Procedures

ROCKINSUL Pipe Sections are wrapped around the pipe. Pieces of closely butted pipe sections are joined together by lacing the adjacent edges of the Wire. The insulation is usually held in place by metal bands.

Handling & storage

ROCKINSUL Pipe Sections should be stored safely indoors. If store outside, they should be stacked clear off ground and covered with a securely anchored weather proof sheet.

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