Technical Data Sheet

Thermal & Acoustic Insulation Solutions

Product Overview
Our insulation solutions are engineered to deliver superior thermal and acoustic performance across a wide range of industrial and commercial applications. Designed for energy efficiency, operational safety, and long-term durability, our insulation systems meet the highest standards in performance and compliance.

Key Applications

- Industrial piping and ducting systems
- HVAC systems
- Cold & hot storage facilities
- Pharmaceutical and food processing plants
- Commercial buildings & soundproofing enclosures

Technical Specifications

1. Thermal Performance

- **Thermal Conductivity:** 0.032 W/mK (at 24°C)
- **Service Temperature Range:** -50°C to +150°C
- **Thermal Resistance (R-Value):** R 3.5 to R 5.0 (depending on thickness)

2. Acoustic Performance

- **Sound Transmission Class (STC):** Up to 45 dB
- **Noise Reduction Coefficient (NRC):** 0.75 to 1.00

3. Physical Properties

- **Material Options:** Glass Wool, Rock Wool, XLPE, Nitrile Rubber

- **Density:** 40 - 120 kg/m³ (depending on product type)
- **Water Absorption:** < 1% by volume (closed-cell structure)
- **Fire Resistance:** Class 0 / Class 1 as per BS 476 Part 6 & 7

4. Mechanical Properties

- **Compressive Strength:** > 25 kPa @ 10% compression (for rigid panels)
- **Tensile Strength:** > 15 kPa (for flexible materials)

Product Formats Available

- Rolls, slabs, tubes, and pipe sections
- Facing options: Aluminium foil, glass cloth, black tissue, etc.
- Thickness range: 10 mm to 100 mm

Compliance & Certifications

- ISO 9001:2015 Certified Manufacturing
- CE Marked Products
- RoHS Compliant
- Fire Safety: BS 476 Part 6 & 7
- Environmental: Eco-friendly and recyclable materials

Benefits

- Energy savings through thermal efficiency
- Noise control in industrial and commercial environments
- Resistance to corrosion, moisture, and microbial growth

- Easy installation with customizable fitments

Manufacturer
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