

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
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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)
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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
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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
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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

Bharath Modern Insulation Company

Specialists in Thermal and Acoustic Solutions Since 1975

 Email: jagadeesan.bharath@gmail.com

 Web: <https://www.bharathmoderninsulationcompany.com>

