

Product Description

Our premium Thermo-Wool Blanket Type is an innovative insulation product engineered for exceptional thermal efficiency and superior noise reduction. Crafted from basalt rock /stone materials, this non-combustible blanket offers unmatched fire resistance (A1 fire rating) while maintaining excellent environmental credentials. Ideal for both commercial and industrial applications, our flexible mineral wool blanket adapts to various surfaces and operating temperatures up to 650°C (1200°F).



KEY FEATURES & BENEFITS

- Advanced Thermal Performance

 - Outstanding λ-value of 0.035 W/mK
 - Reduces heat transfer by up to 70% compared to traditional insulation
 - Maintains consistent performance across extreme temperature ranges (-40°C to +650°C)
- Superior Acoustic Control

 - NRC (Noise Reduction Coefficient) rating of 0.95
 - Effective sound absorption across all frequency ranges (125-4000 Hz)
 - Ideal for HVAC systems, industrial machinery, and architectural acoustics
- Fire Safety Excellence

 - Euro class A1 certification (non-combustible)
 - Melting point exceeding 1000°C
 - Zero toxic fume emission during fire incidents
- Durable & Sustainable

 - Made from 97% natural volcanic rock
 - Recyclable
 - Resistant to mold, vermin, and moisture damage
- Installation Advantages

 - Flexible blanket design with high compression recovery
 - Pre-cut sizes available (3m x 0.6m standard)
 - Compatible with mechanical fixing or high-temp adhesives
 - Non-corrosive to metals and construction materials



TECHNICAL SPECIFICATIONS

PARAMETER	VALUE
DENSITY	50KG m3
THICKNESS OPTIONS	50mm
THERMAL CONDUCTIVITY	0.035 W/mK (at 25°C)
FIRE RATING	EN 13501-1:A1
OPERATING TEMPERATURE	-40°C +650°C
FACING OPTIONS	Bare Type
CERTIFICATIONS	CE, ASTM E84

TYPICAL APPLICATIONS



INDUSTRIAL

- Pipe insulation in power plants
- Furnace and boiler insulation
- Process equipment thermal protection



SPECIALIST USE

- Marine engine room insulation
- Automotive under hood applications
- High-temp process lines in refineries



CONSTRUCTION

- Roof and wall cavity insulation
- Fire barriers in steel structures
- Acoustic partitions in commercial buildings

SAFETY COMPLIANCE

- CE Marked per EN 14303:2015
 - REACH & RoHS compliant
 - R-value: 4.0 per inch (ASTM C518)
 - Always wear PPE (gloves, mask, goggles) during installation
 - Comply with local building regulations for fire-rated assemblies
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INSTALLATION GUIDES

SURFACE PREPARATION

- Clean substrate from dust and oil
- Ensure ambient temperature >5°C

BLANKET APPLICATION

- Apply using high-temp adhesive or stainless steel pins
- Maintain 5% overlap at joints
- For vertical surfaces, use bands at every interval

