



FIBROCK LITE

Lightweight insulation...
always matter

Product Description

FIBROCK LITE is a lightweight insulation multi-purpose rockwool blankets manufactured from inorganic volcanic basalt rocks with a high temperature resin binder through an advanced manufacturing process.

FIBROCK LITE blankets provides exceptional thermal and acoustic insulation while providing enhanced fire protection , making it ideal for a wide range of industrial, commercial, and residential applications.

FIBROCK LITE is an excellent choice for a better financial control and acceleration of installation.



Facings

FIBROCK LITE blankets are available with **three** facing options to meet a wide range of applications:

■ FIBROCK LITE FSK:

FSK features a combination of aluminum foil, scrim, and kraft paper. The reflective aluminum foil surface effectively retards heat, while the scrim adds strength and durability making this option an ideal for applications requiring thermal protection and moisture resistance, such as in **attics** and HVAC ducts.

■ FIBROCK LITE KRAFT PAPER:

This facing is made from recycled materials, making it an environmentally friendly choice. It functions as both a moisture control solution and a vapor barrier, providing versatility for a wide range of insulation applications.

■ FIBROCK LITE VINYL:

Vinyl facing provide a durable protective and moisture resistance layer. The Vinyl facing is typically designed to deliver a decorative finished appearance especially for exposed areas. Additionally, vinyl facings can be supplied in many color options based on customer specifications

FIBROCK LITE is available in any other facings required by the clients.

Key Features:

Light-Weight Design

FIBROCK LITE is lighter than traditional insulation materials, allowing for easier handling and installation and ultimately reducing labor costs and projects timelines.

Eco-Friendly

Made with a commitment to sustainability, FIBROCK LITE is manufactured with natural materials and contains no harmful additives, ensuring it is safe for both indoor and outdoor use.



Moisture Resistance

FIBROCK LITE facings provide a robust moisture barrier, helping to prevent water infiltration that can compromise insulation performance and promote mold growth.

Superior Thermal Performance:

FIBROCK LITE offers excellent thermal insulation, and to control temperature, conserve energy as well as personal protection .

Fire Resistance

FIBROCK LITE is inherently fire-resistant, providing an extra degree of safety for buildings.

Sound Absorption:

The unique fiber structure of FIBROCK LITE effectively reduces sound transmission, creating quieter, more comfortable living and working spaces.

Easy Installation

Lightweight and flexible, FIBROCK LITE is easy to cut, handle, and install, making it a practical choice.

Customizable

Available in various thicknesses, lengths, widths, and densities to accommodate specific customer needs.

FIBROCK LITE APPLICATIONS & USAGE:

FIBROCK LITE is perfect for a wide range of applications, including HVAC Ducts, Walls, Ceilings, roofing ..etc.

Whether you're involved in new construction, retrofitting, or renovation projects, FIBROCK LITE provides reliable insulation that enhances comfort and energy efficiency.

Choose FIBROCK LITE for a lightweight, effective, and environmentally friendly insulation solution, equipped with versatile facings tailored to meet the needs of your specific applications.



FIBROCK LITE Technical Properties

PROPERTIES	PERFORMANCE	REFERENCE
Thickness (MM)	25 – 50	ASTM C 585
Density (kg/M3)	40 - 60	ASTM C 302
Thermal Conductivity at (10°C)	0.035 - 0.037	ASTM C177
FACING	FSK - KRAFT PAPER - VINYL	-
Maximum Service Temperature	750 °C	ASTM C411
Reaction to Fire	NPD	EN 13501-1/ ASTM E84
Water Absorption	<1 Kg/ m2	ASTM C1104
Chloride Content	<10 PPM	ASTM C871/C795
Shot Content	<10% by weight	ASTM C 1335
Rigidity	Semi-Rigid	ASTM C1101/C1101M
Dimension (mm)	Width: 1000 mm or 1200 mm Length: From 5000 mm to 15000 mm	ASTM C 585

FIBROCK LITE is Tailor-made

Various low-densities can be manufactured according to client requirements and specifications.

Wide range of Thicknesses & dimensions can be produced according to the client's requirements and specifications.

Multiple Facings such as Kraft Paper, Vinyl, and Aluminum Foil can be manufactured according to client requirements and specifications.



FIBROCK LITE BLANKETS PACKAGING & STORAGE

FIBROCK LITE BLANKETS are covered by shrink-wrapped polyethylene.

FIBROCK LITE BLANKETS shall be stored in their original packaging in covered areas and off the ground to protect the materials from getting wet.

APPLICABLE STANDARDS

FIBROCK LITE fully complies with the following standards:

ASTM C167: For low-density insulation materials, specifically addresses their thermal resistance (R-value) under steady-state conditions.

ASTM C553: Standard Specification for Mineral Fiber Blanket Thermal Insulation for Commercial and Industrial Applications.

ASTM C411: Standard Test Method for Hot-Surface Performance of High-Temperature Thermal Insulation.

ASTM C1104: Standard Test Method for Determining the Water Vapor Absorption of Unfaced Mineral Fiber Insulation.

ASTM C871: Standard Test Methods for Chemical Analysis of Thermal Insulation Materials for Leachable Chloride, Fluoride, Silicate, and Sodium Ions.

ASTM C795: Specifications for thermal insulation for contact with austenitic stainless steel.

ASTM C1335: Standard Test Method for Measuring Non-Fibrous Content of Man-Made Rock and Slag Mineral Fiber Insulation.



FIBROCK LITE THERMAL PERFORMANCE

FIBROCK LITE has a low thermal conductivity when tested to ASTM C177 as follows:

Mean Operating Temperature °C	Thermal Conductivity (w/m.k)			
	Density 30 KG/M3	Density 40 KG/M3	Density 50 KG/M3	Density 70 KG/M3
50	0.037	0.037	0.038	0.039
100	0.045	0.045	0.045	0.045
150	0.056	0.053	0.050	0.050
200	0.064	0.062	0.059	0.058
250	0.075	0.071	0.066	0.066
300	0.087	0.086	0.077	0.076
350	0.103	0.096	0.090	0.085
400	0.116	0.110	0.103	0.096

QUALITY ASSURANCE

Fibro Rock Egypt manufactures premium Rockwool insulation materials with Fibrotermica Hellas SA company technology, one of the leading companies in Rockwool insulation materials manufacturing in the European community. With roots in Greece since the early 2000s, Fibro Rock Egypt, as an extension of Fibrotermica Hellas SA, continues a tradition of excellence in Rockwool manufacturing.

We ensure top-tier performance with materials that align with sustainability and environmental safety standards.



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