



FDM Blanket Insulation

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Description

Knauf FDM Blanket Insulation is a resilient, flexible blanket insulation made from inorganic glass fibers bonded by a thermosetting resin.

Application

Knauf FDM has sufficient tensile strength to allow normal handling by the flexible duct fabricator and installer.

Features and Benefits

UL Classified

- When tested in accordance with UL 723, Knauf FDM has a maximum flame spread classification of 25 and maximum smoke developed classification of 50.
- UL Air Ducts Component Recognition—Thermal Resistance.
 - Knauf 1¼" FDM will yield an R-4.2 when the installed wall thickness is 1½".
 - Knauf 2" FDM will yield an R-6.0 when the installed wall thickness is 1½".
 - Knauf 2½" FDM will yield an R-8.0 when the installed wall thickness is 2½".

Energy Conservation

- Knauf FDM has excellent thermal properties and reduces operating costs for heating and air conditioning.

Performance

- Knauf FDM will not rot, mold nor deteriorate.
- Knauf FDM Insulation will not provide sustenance for vermin, rodents nor insects.

Specification Compliance

In U.S.:

- ASTM C 553 Types I and II

Technical Data

Surface Burning Characteristics

- UL/ULC listed
- Does not exceed 25 Flame Spread, 50 Smoke Developed when tested in accordance with ASTM NFPA 255 and UL 723.

Water Vapor Sorption (ASTM C 1104)

- Less than 5% by weight.

Thermal Conductivity (ASTM C 518)

- At 75°F mean temperature, the thermal conductivity (k) is 0.26 (BTU in/hr•ft•°F).

Corrosiveness (ASTM C 665)

- Does not accelerate corrosion on steel, copper nor aluminum.

Odor (ASTM C 1304)

- No objectionable odor emission.

Resistance to Fungi or Bacteria (ASTM C 1338)

- Does not promote the growth of fungi or bacteria.

Fiber Glass and Mold

Fiber glass insulation will not sustain mold growth. However, mold can grow on almost any material when it becomes wet and contaminated with organic materials. Carefully inspect any insulation that has been exposed to water. If it shows any sign of mold, it must be discarded. If the material is wet, but shows no evidence of mold, it should be dried rapidly and thoroughly. If it shows signs of facing degradation from wetting, it should be replaced. Air handling insulation used in the air stream must be discarded if exposed to water.

Notes

The chemical and physical properties of Knauf FDM Blanket Insulation represent typical average values determined in accordance with accepted test methods. The data is subject to normal manufacturing and testing variations. The data is supplied as technical service and is subject to change without notice. References to numerical flame spread ratings are not intended to reflect hazards presented by these or any other materials under actual fire conditions.

Check with your Knauf sales representative to assure information is current.

Knauf Insulation GmbH
One Knauf Drive
Shelbyville, IN 46176

Sales and Marketing (800) 825-4434, ext. 8283

Technical Support (800) 825-4434, ext. 8212

Customer Service (866) 445-2365

Fax (317) 398-3675

World Wide Web www.KnaufInsulation.com

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Credit 5.1 - 5.2 Regional Materials

