



JOHNS-MANVILLE

22 East 40th Street, New York 16, N.Y.

Offices in All Large Cities Here and Abroad

Insulation



J-M MICRO-AIRE PREFORMED AIR DUCT

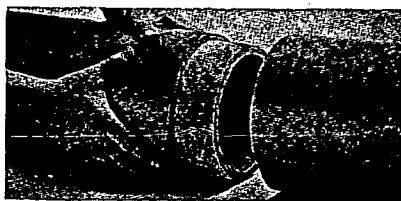
Product Data: Prefabricated, lightweight, cylindrical fiber glass duct for heating and cooling systems. Combines duct, thermal and acoustical insulation, and vapor barrier in one structurally strong product. Resilient fiber glass resists impact damage during and after installation. Made of incombustible materials. Won't rot or mildew.

Nominal density is 3.35 pcf. Smooth inside surface reduces air friction and resists fiber erosion. Designed for velocities to 2000 fpm. Exterior vapor barrier is flame-retardant.

Thermal Performance: K at 75F mean—23.

Installation: Connections easily made by integral "slip joints" (with or without standard metal fittings) and pressure-sensitive tape.

Sizes: All sections 6 ft. long. Wall thickness 15/16 in. Made in all commonly used sizes from 2" to 18" I.D.



J-M Micro-Aire duct sections have factory-formed "slip joints" for strong, snug connections. Tight seal is completed with pressure-sensitive tape.

J-M MICRO-BAR FIBER GLASS DUCT LINER

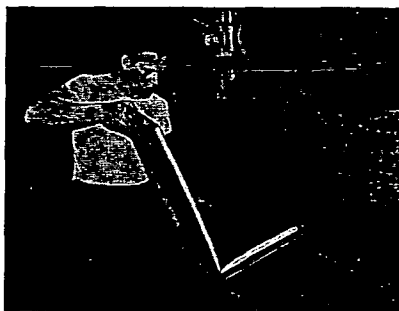
Product Data: Resilient, blanket-type insulation featuring dual-density construction. Light density insulation for greater sound absorption and thermal resistance, covered with tough, heavy-density surface insulation to check air erosion and withstand shop handling. Made of strong, inorganic glass fibers bonded by thermosetting resin. Surface is treated and coated with flame-retardant, black-pigmented plastic.

Noise Reduction Coefficient: 1/2 in. thick—.60; 1 in. thick—.80. No. 6 mounting used.

Underwriters' Laboratories Fire Hazard Rating: Flame spread 15, fuel contributed 25, smoke developed 5. This permits design of system which reduces combustibles to a minimum when installed with mechanical fasteners only.

Thermal Conductance: At 75F mean, 1/2 in. thick—.45; 1 in. thick—.23.

Packaging: Thicknesses—1/2", 1", 1 1/2", 2". Widths—24", 36", 48", 60". Roll lengths—50' to 200' depending on thickness.



Micro-Bar Duct Liner forms readily with the metal in the brake without damage. Edges won't crumble. Conforms readily to irregular surfaces.

J-M FIBER GLASS DUCT WRAPS

Facings: All J-M fiber glass duct wraps are available plain, or with factory-applied vapor barriers such as standard and lightweight reinforced paper, reinforced foil and paper, aluminum foil, vinyl film. Where required, a 2-inch sealing tab is available on one edge, and on 2 edges of some widths.

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MICROLITE®

Product Data: Low density, resilient, blanket-type insulation made of long, strong, extremely fine, flame blown glass fibers, bonded with a thermosetting resin.

Thermal Performance: k at 75F mean—6/10 pcf, .28; 3/4 pcf, .27; 1 pcf, .25; 1 1/2 pcf, .24; 2 pcf, .23; 2 1/2 pcf, .225; 3 pcf, .22.

Packaging: Densities—3/4, 1, 1 1/2, 2, 2 1/2, 3 pcf. Thicknesses range from 1/2" to 4" (in 1/2" increments) depending on density. Widths—24", 36", 48", 72". Roll lengths—50', 100' and 200' depending on density and thickness.

MICROTEx®

Product Data: Blanket insulation formed of long, strong glass fibers and reinforced with glass textile yarn.

Thermal Performance: k at 75F mean—3/4 pcf, 0.29; 1 pcf, .265; 1 1/2 pcf, .245; 2 pcf, .23; 2 1/2 pcf, .226; 3 pcf, .225.

Packaging: Densities—pcf, 3/4, 1, 1 1/2, 2, 2 1/2 and 3. Thicknesses—1/2", 1", 1 1/2", 2", 3". Widths—24", 36", 48". Roll lengths—50' to 200' depending on density and thickness.

FOR SWEATING LINES— NEW J-M AEROTUBE®

Description: A flexible, foamed plastic, tubular pipe insulation for temperatures from 32F to 200F. Forms its own vapor barrier. Recommended for heating, plumbing, air-conditioning service where condensation is problem.



Aerotube slides onto even the most complex bends—6 feet at a time—in just seconds. This bend took only 7 seconds to insulate!

Physical Properties: WVT, less than 0.1 Perms. Water absorption, 3.9% by volume (60 days immersion). Density, 7.5 lbs/cu ft. (All figures average values obtained in accordance with accepted test methods.)

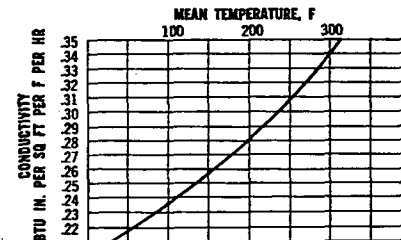
Application: 6' lengths slide onto even the most complex bends of iron pipe or copper tubing. On connected pipe, Aero-tube is slit longitudinally, snapped on the pipe and cemented into place. Also available in sheets for use on flat surfaces.

J-M MICRO-LOK FIBER GLASS PIPE INSULATION

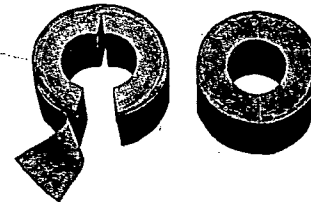
Description: Micro-Lok Pipe insulation is made from long, fine glass fibers molded to form one-piece, three-foot sections in all standard wall thicknesses, for use on all standard iron pipe and copper tubing sizes. Temperature limits are from 370F maximum to sub-zero. (Consult J-M for low temperature applications.) For hot and cold water supply lines, heating supply and return lines, dual temperature lines and chilled water, brine, refrigerant and process piping.

Properties: Density—3.50 lb nominal. Moisture absorption—less than 0.2% by volume. Alkalinity (expressed as Na₂O)—less than 2%. Corrosivity (with steel, copper, aluminum)—does not cause or accelerate. Thermal diffusivity—@ 150F mean temperature 0.032 sq ft/hr.

Thermal Conductivity: Average values for use in heat loss calculations.



Application: Micro-Lok features an automatic "spring hinge" opening and closing action, as shown below. It opens easily over the entire length and springs shut to assure a snug closure that minimizes heat loss or gain. The fiber lay-up permits easy and accurate cutting of the inside diameter to conform to fittings, etc.



Jackets: Micro-Lok is available in canvas, weather resistant or a variety of vapor barrier jackets, including general purpose, dual temperature and the new Flame-Bar. All factory-applied with a minimum 1 1/2" longitudinal lap.

Compliance With Government Specs:

HH-1-552, Type 1, Class A and B.
HH-1-562, Type 2, Class 1 and 2.