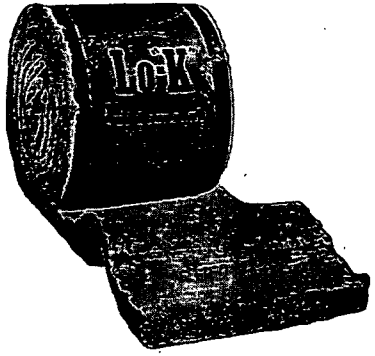
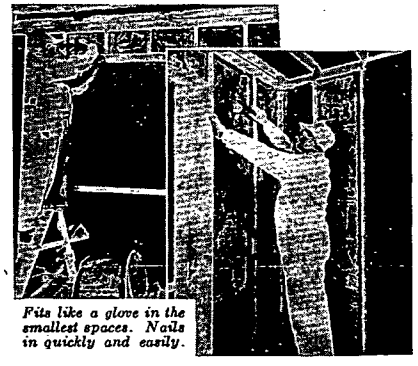
Lockport Cotton Batting Co.

Lockport, New York

THERMAL **Lo-"K"** ACOUSTICAL

INSULATION





Fits like a glove in the smallest spaces. Nails in quickly and easily.

Comes in four featured types to meet every insulation need: (1) ***Standard,*** open, blanket roll, backed by tough, waterproof, asphalt-coated kraft paper to form an effective vapor barrier. (2) ***Enclosed Blanket.*** Insulation is completely enclosed in envelope made of asphalt-coated paper on one side and a porous or "breather" type paper on other side. (3) ***Open Aluminum Foil***—providing all the features of open Type 1 plus the extra value of aluminum foil backing. Forms an effective vapor barrier—stops 90 per cent of radiant heat. (4) ***Enclosed Aluminum Foil.*** Superior in insulation plus values and thermal efficiency. Provides greater convenience, comfort, economy and performance.

Thermal Conductivity—The "k" value for cotton is 0.24 Btu/hr/sq ft/degree F/inch. (*See table.*)

Light Weight—Weight of 1 cu ft is ⅞ lb. (*See table.*)

Flame-Proofed—Withstands 1800° blow torch heat.

Moisture-Resistant—Chemical treatment, combined with natural protective coating on cotton fibres, enables cotton to effectively resist moisture. Prevents rot and mildew.

Smooth Texture—Cotton contains none of the sharp particles that irritate the skin.

Flexible—Cotton batt may be expanded or contracted to fit any enclosure.

Easy to Warehouse and Handle. Offers far more "compressibility." Requires one third the trucking and warehouse space of ordinary insulation.

Simple and Economical to Install. Saves from 25 to 40 per cent in costs.

Designed to Maintain Maximum Utility. Resists all types of deterioration. Won't sag or settle. Packaged in Rolled Form.

Thicknesses—inches: 1, 1½, 2, 3, 3⅝. Width—16, 20, 24 in. centers. Lengths: Standard from 12 ft up.

INSULATING VALUE OF VARIOUS INSULATORS[a]

The coefficients of conductivity (*k* value) are expressed in Btu per hour per square foot per degree Fahrenheit per 1 in. of thickness.

Type of Insulation	Wgt. per Cu Ft	*k*[b] Value
Cotton: Insulating Batt	.875	0.24
Rock Wool: Fibrous material made from rock	10.00	0.27
Mineral Wool: Fibrous material made from mineral slag	....	0.27
Glass Wool: Fibrous material made from glass slag	1.50	0.27
Rigid Insulation made from sugar cane fibre	13.50	0.33
Chemically treated wood fibre between layers of paper	3.62	0.25
Eel grass between layers of paper	3.40	0.25
Stitched and creped expanding fibrous blanket	1.50	0.27
Shavings: Various from planer	8.80	0.41
Corkboard: No binder added	7.00	0.27
Rigid insulation made from wood fibre	15.90	0.33
Rigid fibre board made from shredded wool and cement	24.20	0.46

[a]Compiled from Chapter 9.
[b]"*k*" indicates temperature conductivity.

Owens-Illinois Glass Company

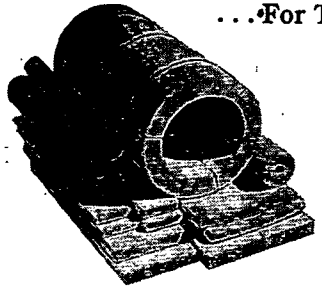
Kaylo Division Toledo 1, Ohio

Sales Offices

Atlanta	Chicago	Detroit	New York	Pittsburgh
Boston	Cincinnati	Houston	Oklahoma City	St. Louis
Buffalo	Cleveland	Minneapolis	Philadelphia	Washington

KAYLO® Heat Insulation

. . . For Temperatures Up to 1200° F.



KAYLO HEAT INSULATION, a hydrous calcium silicate, is effective up to 1200° F. It performs efficiently through the hot water and low pressure steam range, also through temperatures in the superheated steam range. Therefore, a single material can be used for high temperatures which usually require combinations of two different insulating materials. Kaylo Heat Insulation is incombustible and insoluble in water. Its light weight simplifies handling, shipping and application. High strength makes breakage almost negligible. Kaylo Heat Insulation can be cut, scored or sawed with ordinary tools. The material is non-irritating to the skin and non-toxic.

KAYLO PIPE INSULATION is made to Simplified Dimensional Standards of thicknesses and diameters for snug nesting, when necessary. Coverings are sectional for tube and pipe sizes ¼ in. to 12 in.; tri-segmental up to 23 in.; quad-segmental up to 41 in.; K-segmental (18 in. wide segments) up to 72 in. in diameter.

KAYLO HEAT INSULATING BLOCK is made in all standard sizes, up to 18 in. wide and in thicknesses from 1 in. to 6 in. Where necessary, on special order, the block can be shiplapped for broken joint, single-layer application in thicknesses of 3 in. or greater.

PHYSICAL CHARACTERISTICS

DENSITY.....Approximately 11 lb per cu ft.

FLEXURAL STRENGTH.... 50 lb per sq in.

COMPRESSIVE STRENGTH (at 5% deformation)

Before heating.....150 lb per sq in.

After heating for 24 hours
- at 750° F.....144 lb per sq in.
- at 1000°F.....123 lb per sq in.
- at 1200°F.....117 lb per sq in.

After boiling for 24 hours (while wet).....74 lb per sq in.

LOSS IN WEIGHT

After heating for 24 hours
- at 750° F.....5.5%
- at 1000° F.....7.9%
- at 1200° F.....9.8%

After boiling for 24 hours (after drying).....0.2%

RESISTANCE TO ABRASION

(Conventional tumbling test-loss in weight after 10 minutes)

Before heating.....2.2%

After heating for 24 hours
- at 750° F.....3.7%
- at 1000° F.....5.7%
- at 1200° F.....6.9%

DIMENSIONAL STABILITY

Linear shrinkage after heating for 24 hours
- at 750° F.....0.8%
- at 1000° F.....0.9%
- at 1200° F.....1.5%

Elongation after saturation (max.).....0.04%

MOISTURE ABSORPTION (volume)

After 6 hours exposure in atmosphere of 120° F and 90% Relative Humidity.....0.9%

CONDUCTIVITY (K)

At 100° F mean temperature.....0.41

At 500° F mean temperature.....0.54



WRITE FOR LITERATURE ON KAYLO HEAT INSULATION