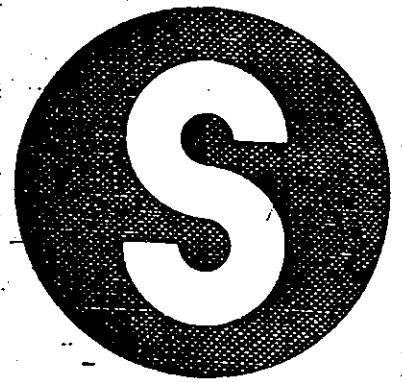


**Industrial
Construction
File**



1954

roofing and siding **4**

*waterproofing,
masonry
treatments* **5**

thermal insulation **6**

*doors and
windows* **7**

PERIODICAL
TA215
.S&S

04 SERIALS

**Sweet's
Catalog
Service**

PLAINTIFF'S
EXHIBIT

K-742

A COMPLETE LINE OF INSULATIONS for temperatures up to 1200°

Now, Owens-Corning Fiberglas offers the best and most complete line of modern industrial insulations for temperatures up to 1200°F. available from a single source. Fiberglas can furnish either rigid or flexible insulation for every type of pipe, duct, and equipment commonly used in today's complex industrial and commercial field. The Fiberglas name assures efficiency, lasting serviceability, and sure, long-range economy.



Fiberglas AE Board

Fiberglas AE Board is made in rigid panels of glass fibers enclosed in asphalt. Designed for low temperature service at temperatures ranging up to 100°F.



Fiberglas Dual Temperature Pipe Insulation

Fiberglas Dual Temperature Pipe Insulation is fibrous glass insulation with a factory-applied vapor barrier to prevent condensation on cold pipes. For temperatures up to 450°F.



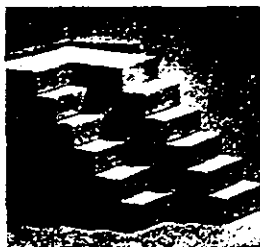
Fiberglas Metal Mesh Blanket

Fiberglas Metal Mesh Blankets are made of fibrous glass wool, faced on one or both sides with wire mesh or metal lath. Ideal for equipment with irregular surfaces.



Fiberglas Aerowrap* Pipe Insulation

Fiberglas Aerowrap is a wrap-around insulation made of fine glass fibers, in resilient, light weight blanket form. Versatile and efficient. For all temperature ranges up to 600°F.



Fiberglas No. 600 Block Insulation

Fiberglas Block Insulation is cut to lagging sizes and sanded on one side to form rigid blocks. For use on regular surfaces where temperature ranges do not exceed 450°F.



Fiberglas PF Pipe Insulation

Fiberglas PF Pipe Insulation, made of fibrous glass wool, is resin bonded and molded in cylindrical form. Recommended for all temperatures up to 450°F.



Fiberglas TW-F Insulating Wool

Fiberglas Insulating Wool is a multi-purpose product offered in roll, batt, bulk, or shredded form. Excellently suited for a wide range of applications up to 1000°F.



Fiberglas Blanket Type Pipe Insulation

Fiberglas Blanket Type Pipe Insulation is Fiberglas Insulating Wool faced with wire mesh. Available for pipe sizes from 3 to 42 inches. For temperatures up to 1000°F.



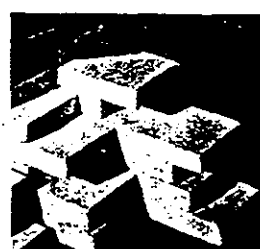
Fiberglas PF Insulation

Fiberglas PF Insulation is made in rectangular panels of rosin-bonded fibrous glass wool. Resilient, light, and easy to handle. For temperatures up to 450°F.



Kaylo® Pipe Insulation

Kaylo Pipe Insulation is made of a compound of lime and silica in pre-formed segments for pipe sizes to 23 inches. For temperature ranges up to 1200°F.



Kaylo Heat Insulating Block

Kaylo Heat Insulating Block is made of a lime and silica compound in 6, 12, and 18 inch widths and thicknesses from 1 to 3 inches, for service up to 1200°F.

Fiberglas (Reg. U.S. Pat. Off.) and Aerowrap are trademarks of Owens-Corning Fiberglas Corporation, Owens-Illinois Glass Company.

FIBERGLAS PF PIPE INSULATION

Description

Fiberglas PF pipe Insulation is made of fine-fibred glass wool, resin bonded, and molded in simplified dimensional standards, to fit pipe surfaces. It is recommended for pipes operating at temperatures up to 450°F. The resilient fibers mesh at the joints to give continuous, effective insulation. PF Pipe Insulation is available with a variety of factory applied jackets for use indoors or out, on heated lines.

Properties

PF Pipe Insulation is light in weight and easy to handle yet dense enough to be strong and durable. Like other Fiberglas materials, it resists moisture, will not support combustion, and has exceptional physical stability. Its low thermal conductivity is illustrated by the graph at right.

Sizes

Fiberglas PF Pipe Insulation is available for iron pipe sizes from 1/2 inch through 33 inches and for copper tubing sizes from 3/8 inch through 6 inches. It is supplied in 3 foot lengths. Sizes and thicknesses available are given in table on opposite page.

Advantages

Efficiency—Fiberglas PF Pipe Insulation is first in efficiency among molded materials within its service range. Its intricate maze of fibers traps countless tiny pockets of still air—one of nature's best insulators—and effectively reduces heat loss.

Resiliency—The resiliency of the glass fibers enables PF Pipe Insulation to resist damage from constant vibration or from thermal shock due to rapid temperature change.

Incombustible—PF Pipe Insulation, in common with other Fiberglas products, will not support combustion.

Nesting Sizes—PF Pipe-Insulation is manufactured in accordance with the "new simplified dimensional standards". The outside diameters conform to standard pipe diameters. This permits easy nesting and gives a wider selection of insulation thicknesses for multiple layer construction.

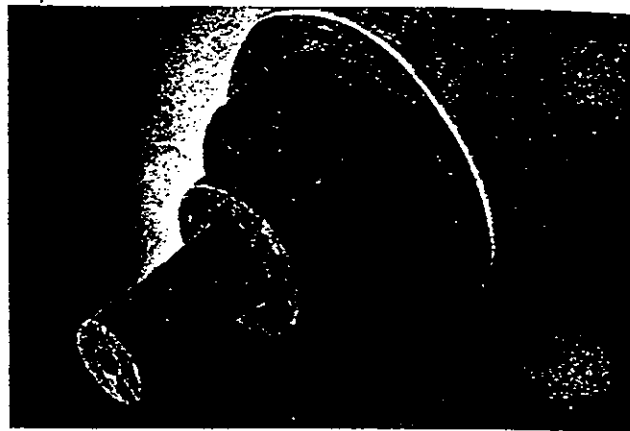
Easy Installation—PF Pipe Insulation is easy to cut and fit. A knife is the only tool needed. The insulation can be "tailored" to fit standard pipe couplings for a neater, more effective application. Finer fibers make the product pleasant to handle.

Limitations

PF Pipe Insulation should not be used on pipes operating at temperatures above 450°F.

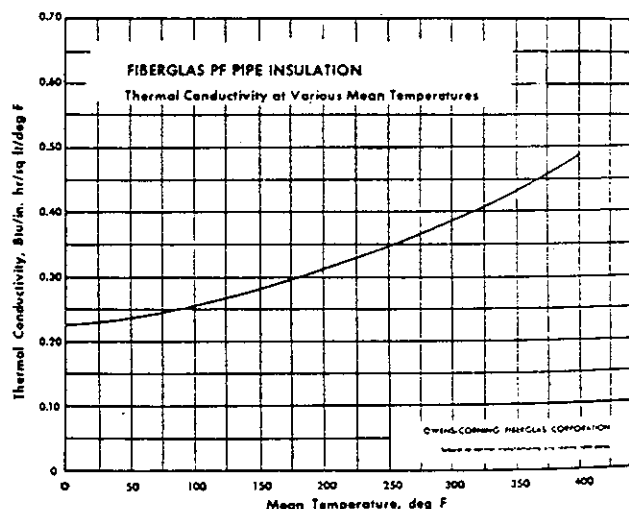
For low temperature lines, Dual Temperature Pipe Insulation is recommended. If PF Pipe Insulation is used on low temperature lines, a suitable vapor-barrier jacket must be installed over the insulation.

The insulation should be protected from mechanical damage in locations where it will receive abuse.



The standardization of Fiberglas PF Pipe Insulation sizes, to conform to simplified dimensions, makes possible reductions up to 40 per cent in inventory lists and storage space requirements.

THERMAL CONDUCTIVITY

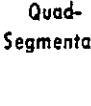
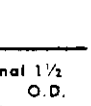
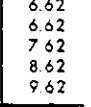
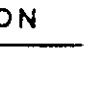


RECOMMENDED THICKNESSES

Insulation Thickness—Inches To give insulation surface temperatures below 120°F.*						
Steam Pressure or Condition	Operating Temp. °F.	Pipe Sizes—Inches				
		Up to 1	1 1/4-5	6-8	9-12	14 and Up
Hot Water	212	1/2	1/2	1/2	1	1
0 to 25 lb	213-267	1/2	1	1	1	1
25 to 100 lb	268-338	1	1	1	1	1
100 to 200 lb	339-388	1	1	1 1/2	1 1/2	1 1/2
Low Super Heat	389-450	1 1/2	1 1/2	2	2	2

*Many services permit higher or lower surface temperatures and efficiencies. Recommended thicknesses for surface temperatures of 110°, 130° and 140° available on request.

Standard Sizes, Thicknesses and Forms

PIPE SIZE		NOMINAL THICKNESS OF INSULATION																FORMS	
		1/2		1		1 1/2		2		2 1/2		3		3 1/2		4			
Nom- inal	Actual O.D.	Actual	O.D.	Actual	O.D.	Actual	O.D.	Actual	O.D.	Actual	O.D.	Actual	O.D.	Actual	O.D.	Actual	O.D.		
1/2"	.84	.50		1.02	2.88	1.58	4.00	2.08	5.00	2.36	5.56	2.89	6.62	3.39	7.62	3.89	8.62		
3/4"	1.05	.50		.91	2.88	1.48	4.00	1.98	5.00	2.26	5.56	2.79	6.62	3.29	7.62	3.79	8.62		
1"	1.32	.50		1.09	3.50	1.59	4.50	2.12	5.56	2.65	6.62	3.15	7.62	3.15	8.62	4.15	9.62		
1 1/4"	1.66	.46		.92	3.50	1.67	5.00	1.95	5.56	2.48	6.62	2.98	7.62	2.98	8.62	3.98	9.62		
1 1/2"	1.90	.45		1.05	4.00	1.55	5.00	1.83	5.56	2.36	6.62	2.86	7.62	3.86	9.62	3.86	9.62		
2"	2.38	.52		1.06	4.50	1.59	5.56	2.12	6.62	2.62	7.62	3.12	8.62	3.62	9.62	4.19	10.75		
2 1/2"	2.88	.50		1.06	5.00	1.34	5.56	1.88	6.62	2.37	7.62	2.87	8.62	3.94	10.75	4.12	10.75		
3"	3.50	.47		1.03	5.56	1.56	6.62	2.06	7.62	2.56	8.62	3.06	9.62	3.62	10.75	3.87	11.75		
3 1/2"	4.00	.47		1.31	6.62	1.31	6.62	1.81	7.62	2.81	9.62	2.81	9.62	3.87	11.75	4.12	11.75		
4"	4.50	.53		1.06	6.62	1.56	7.62	2.06	8.62	2.56	9.62	3.12	10.75	3.62	11.75	3.87	12.75		
4 1/2"	5.00			1.31	7.62	1.31	7.62	1.81	8.62	2.87	10.75	2.87	10.75	3.37	11.75	4.22	12.75		
5"	5.56	.60		1.03	7.62	1.53	8.62	2.03	9.62	2.59	10.75	3.09	11.75	3.59	12.75	4.19	14.12		
6"	6.62	.50		1.00	8.62	1.50	9.62	2.06	10.75	2.56	11.75	3.06	12.75	3.59	14.12	4.19	15.12		
7"	7.62					1.56	10.75	2.06	11.75	2.56	12.75	3.19	14.13	3.69	15.12	4.19	16.12		
8"	8.62	.50				1.56	11.75	2.06	12.75	2.69	14.00	3.19	15.13	3.19	16.12	4.19	17.12		
9"	9.62							2.19	14.00	2.69	15.00	3.19	16.13	3.69	17.12	4.12	18.12		
10"	10.75	.50				1.62	14.00	2.12	15.00	2.62	16.00	3.12	17.13	3.69	18.12	4.12	19.12		
11"	11.75					1.62	15.00	2.12	16.00	2.62	17.00	3.12	18.13	3.62	19.12	4.12	20.12		
12"	12.75	.50				1.62	16.00	2.12	17.00	2.62	18.00	3.12	19.13	3.62	20.12	4.00	21.12		
14"	14.00					1.50	17.00	2.00	18.00	2.50	19.00	3.00	20.13	3.62	21.12	4.00	22.12		
15"	15.00					1.50	18.00	2.00	19.00	2.50	20.00	3.00	21.13	3.62	22.12	4.00	23.12		
16"	16.00					1.50	19.00	2.00	20.00	2.50	21.00	3.00	22.13	3.62	23.12	4.00	24.12		
17"	17.00					1.50	20.00	2.00	21.00	2.50	22.00	3.00	23.13	3.50	24.12	4.00	25.12		
18"	18.00					1.50	21.00	2.00	22.00	2.50	23.00	3.00	24.13	3.50	25.12	4.00	26.12		
19"	19.00					1.50	22.00	2.00	23.00	2.50	24.00	3.00	25.13	3.50	26.12	4.00	27.12		
20"	20.00					1.50	23.00	2.00	24.00	2.50	25.00	3.00	26.13	3.50	27.12	4.00	28.12		
21"	21.00					1.50	24.00	2.00	25.00	2.50	26.00	3.00	27.13	3.50	28.12	4.00	29.12		
22"	22.00					1.50	25.00	2.00	26.00	2.50	27.00	3.00	28.13	3.50	29.12	4.00	30.12		
23"	23.00					1.50	26.00	2.00	27.00	2.50	28.00	3.00	29.13	3.50	30.12	4.00	31.12		
24"	24.00					1.50	27.00	2.00	28.00	2.50	29.00	3.00	30.13	3.50	31.12	4.00	32.12		
25"	25.00					1.50	28.00	2.00	29.00	2.50	30.00	3.00	31.13	3.50	32.12	4.00	33.12		
26"	26.00					1.50	29.00	2.00	30.00	2.50	31.00	3.00	32.13	3.50	33.12	4.00	34.12		
27"	27.00					1.50	30.00	2.00	31.00	2.50	32.00	3.00	33.13	3.50	34.12	4.00	35.12		
28"	28.00					1.50	31.00	2.00	32.00	2.50	33.00	3.00	34.13	3.50	35.12	4.00	36.12		
29"	29.00					1.50	32.00	2.00	33.00	2.50	34.00	3.00	35.13	3.50	36.12	4.00	37.12		
30"	30.00					1.50	33.00	2.00	34.00	2.50	35.00	3.00	36.13	3.50	37.12				
31"	31.00					1.50	34.00	2.00	35.00	2.50	36.00								
32"	32.00					1.50	35.00	2.00	36.00	2.50	37.00								
33"	33.00					1.50	36.00	2.00	37.00	2.50	38.00								

Single Layer*

Multiple Layer**

*2" thickness may be made up of multiple layers on pipe lines up to 4".

**2 1/2" thickness is single layer only on pipes over 6".

Copper Tubing*

Tubing Size	Actual O.D.	Nominal 1/2 Actual O.D.	Nominal 1 Actual O.D.	Nominal 1 1/2 Actual O.D.	Tubing Size	Actual O.D.	Nominal 1/2 Actual O.D.	Nominal 1 Actual O.D.	Nominal 1 1/2 Actual O.D.
3/8"	.50	.50	1.50	1.19	2"	2.12	.50	3.12	1.19
1/2"	.63	.50	1.62	1.12	2 1/2"	2.62	.50	3.62	.94
5/8"	.75	.50	1.75	1.06	3"	3.12	.50	4.12	1.28
3/4"	.88	.50	1.88	1.00	3 1/2"	3.62	.50	4.62	.97
1"	1.13	.50	2.12	.91	4"	4.12			1.25
1 1/4"	1.37	.50	2.37	1.06	5"	5.12			1.25
1 1/2"	1.63	.50	2.62	.94	6"	6.12			1.25

*O.D. of copper tubing insulation conforms to iron pipe sizes except of 1/2" thick insulation.

FIBERGLAS PF PIPE INSULATION (continued)**Recommended Application**

Fiberglas PF Pipe Insulation is suited for use on piping at temperatures up to 450°F. It may be used on indoor or outdoor lines. When used outdoors a waterproof jacket should be used to protect the insulation.

On piping operating above 450°F., PF Pipe Insulation can be used as a second layer insulation over Kaylo pipe insulation. The inner layer should be thick enough so that its surface temperature does not exceed 450°F. Nesting sizes permit the combination of PF Pipe Insulation with these materials to take advantage of its extra efficiency.

Coverings

Canvas—For pipe sizes up to 12 inches, insulation is furnished in matched half cylinders covered with a factory-applied standard canvas jacket, forming hinge and lap. For larger pipe sizes, insulation is supplied in segments. Separate jackets of heavier canvas are available on request.

Waterproof Jacket—Where PF Pipe Insulation is to be used outdoors, or where the insulation is subject to occasional wetting, a suitable waterproof roofing felt jacket may be ordered in place of the canvas. Strips of the same material, 4 inches wide, are provided to cover joints. Other waterproof jacketing materials are available on request.

Suggested Specification**Insulating Material**

All pipes designated for operating temperatures up to 450°F. (where noted on drawings or listed in schedule) shall be insulated with Fiberglas PF Pipe Insulation as manufactured by Owens-Corning Fiberglas Corporation. Material shall be applied (in the thickness shown on drawings or list) (to a thickness).

Application

All pipe insulation shall be applied over clean, dry surfaces, butting adjoining sections firmly together and pasting canvas, when furnished, smoothly over joints. Insulation on pipes through 12 inches in diameter shall be secured with metal bands spaced on not greater than 18-inch centers.

Insulation on pipes over 12 inches in diameter shall be wired in place with No. 16 soft annealed wire. Where double layer insulation is applied, the first layer shall be wired in place without jacket; the second layer shall be applied with all joints staggered.

All flanges, valves and fittings shall be insulated with pre-molded fitting insulation, equal in thickness to the insulation on the adjoining pipe; field fabricated insulation (mitered segments of rigid insulation wired in place) or Fiberglas Aerowrap wrapped to the desired thickness.

Surface Finish

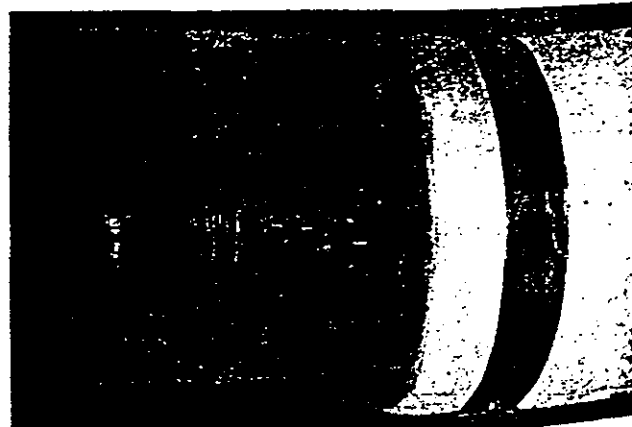
Indoor piping through 12 inches in diameter not subject to abrasion or mechanical abuse requires no finish in addition to the factory-furnished canvas and bands. Piping over 12 inches in diameter shall be finished with canvas pasted in place.

Piping located outdoors shall be finished with factory-applied waterproof jacket with longitudinal joints lapped not less than 2 inches. All transverse jacket joints shall be covered with factory-furnished waterproof strips secured with two loops of No. 16 galvanized soft annealed wire. Each section shall be wired with additional loops. Field-fabricated insulations on flanges, valves and fittings where required shall be covered with a ¼-inch coat of finishing cement. Portland cement to a maximum of 25% dry weight may be added if a harder finish is desired. Fitting insulation located indoors shall be finished with canvas neatly pasted in place.

All insulation on flanges, valves and fittings located outdoors shall be covered with asphalt weatherproof mastic, reinforced with an open mesh glass fabric. Mastic shall be applied in sufficient thickness to give a ⅛-inch dry coat and shall be troweled neatly over the fitting and lapped over the jacket on the adjacent pipe.



A knife is the only tool needed to cut and fit Fiberglas PF Pipe Insulation where a coupling changes the pipe contour.



The result is a neat, effective application, with no interruption of the smooth outer surface of the pipe insulation.

FIBERGLAS BLANKET TYPE PIPE INSULATION

Description

Fiberglas Blanket Type Pipe Insulation is made of Fiberglas TW-F Insulating Wool. It is faced on one side with 1-inch "straight line" wire mesh, secured to the wool by asbestos yarn ties. The strong wire mesh is cut to the right length to fit each pipe size. Selvages for easy, long lasting application are fabricated from 26-gauge sheet metal, folded twice, and crimped about the cut ends of the wire to form a metal edge $\frac{3}{4}$ inch wide. Blanket Type Pipe Insulation is designed for insulating pipes from 3 inches to 42 inches in diameter, operating at temperatures up to 1000°F.

Properties

All the general properties common to Fiberglas insulations are present in Fiberglas Blanket Type Pipe Insulation. It resists moisture, will not support combustion, will not rot, and will not cause or accelerate corrosion of metal pipe. Its thermal conductivity averages .25 Btu.sq.ft./ degree F. at 75°F. mean temperature.

Advantages

Versatility—Its flexibility makes Fiberglas Blanket Type Insulation ideal for spiral-riveted or spiral-welded pipes of irregular dimensions and for normal high temperature lines where metal or roofing felt finishes are desired.

Efficiency—Interlocked glass fibers form countless tiny pockets which trap still air and provide high insulating efficiency.

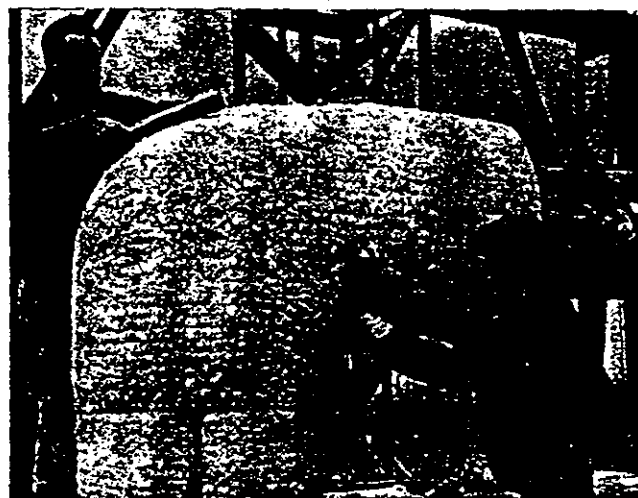
Easy Application—Its light weight makes this insulation easy to handle. Application consists of wrapping the "blanket" around the pipe and lacing or tying the facing selvages together.

Application

Fiberglas Blanket Type Pipe Insulation is applied over clean, dry pipe, with all edges tightly fitted together. The longitudinal selvage edges are laced or tied together with wire.

On bends, the selvages should be laced or tied together on the outside radius of the bend and the wire mesh on the inside radius of the bend shortened to conform to the contour of the pipe.

Flanges, valves, and fittings can be insulated with Fiberglas Metal Mesh Blankets. They are formed to fit and cut where necessary. All cut edges are laced together with wire.



Fiberglas Blanket Type Pipe Insulation is light in weight, easy to handle in even the most inaccessible places, and easy to apply.

Finishes

Insulation on indoor or outdoor piping should be jacketed. One suitable finish is 55-lb. roofing felt, lapped 2 inches at every seam. The roofing felt is secured with No. 16 wire or with bands.

Finish can also be a galvanized sheet metal jacket with seams lapped 2 inches against the weather and secured in place with sheet metal screws on 6-inch centers, or with metal bands. A sheet metal screw attached at each lap of jacket sections will prevent slippage on vertical runs of pipe.

All flanges, valves, and fittings should be finished with two $\frac{1}{8}$ -inch layers of Fiberglas O-C Mastic reinforced with a tight wrapping of an open mesh glass fabric between the layers of mastic.

RECOMMENDED THICKNESSES

Temperature Range °F.	Insulation Thickness—Inches		
	Pipe Sizes—Inches		
	3-4½	5-10	12 and Up
Up to 300	1	1	1
301 to 400	1½	2	2
401 to 500	2	2½	3
501 to 600	2½	2½	3
601 to 700	3	3	3½
701 to 800	3	3½	4
801 to 900	3½	4	4½
901 to 1000	3½	4½	4½

OWENS-CORNING FIBERGLAS CORPORATION

KAYLO PIPE INSULATION

Description

Kaylo Pipe Insulation is made of a chemical compound of lime and silica which needs no added binder. A small amount of asbestos fiber is included at the time of manufacture. Kaylo Pipe Insulation is suited for use on pipes operating at temperatures up to 1200°F. It is manufactured by Owens-Illinois Glass Company and distributed nationally by the Owens-Corning Fiberglas Corporation.

Properties

Kaylo Pipe Insulation resists moisture. It is incombustible and dimensionally stable. Its coefficient of thermal conductivity is very low among products in its temperature range as shown by the graph at right.

Sizes

Owens-Corning Fiberglas Corporation can supply Kaylo Pipe Insulation in semi-cylindrical sections for pipes up to 12 inches in diameter and in three-segment units for pipes up to 23 inches. See the table on page 13.

Advantages

Efficiency—Kaylo Pipe Insulation offers exceptional insulating value. So small and so numerous are its insulating air spaces that they present a material internal surface of approximately 100 acres per cubic foot of insulation.

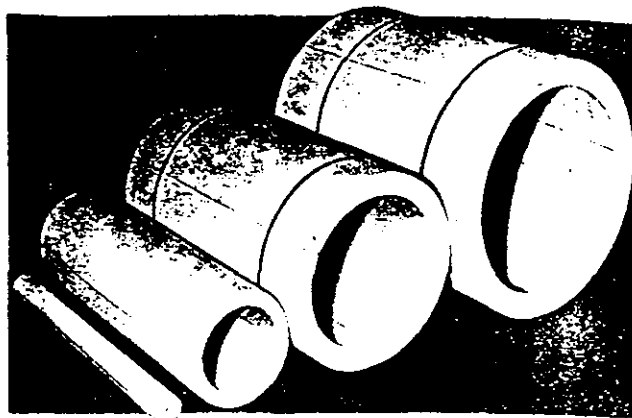
Resistance to Moisture—Water does not break down the structure of Kaylo. Even saturated, it retains an appreciable percentage of its strength. After being soaked for long periods of time and then dried, it returns to its original thermal efficiency and strength, without apparent shrinking or warping.

Easy Application—Kaylo Pipe Insulation is light and easy to handle. Its sectional or segmented construction makes it easy to apply.

Long Service—Kaylo remains strong and efficient over the years. It shows little shrinkage even after constant, prolonged exposure to temperatures up to 1200°F.

Versatility—Kaylo performs efficiently on temperatures through the hot water and low pressure steam range and also through temperatures in the superheated steam range. Kaylo can be used alone for high temperatures which usually require combinations of two different insulating materials. Single layer application, for labor saving, is possible on pipes operating up to 700°F.

Nesting Sizes—Outside diameters of Kaylo Pipe Insulation correspond to outside diameters of standard pipes. Where multiple layer application is needed, all layers nest perfectly to provide high efficiency at any desired thickness.

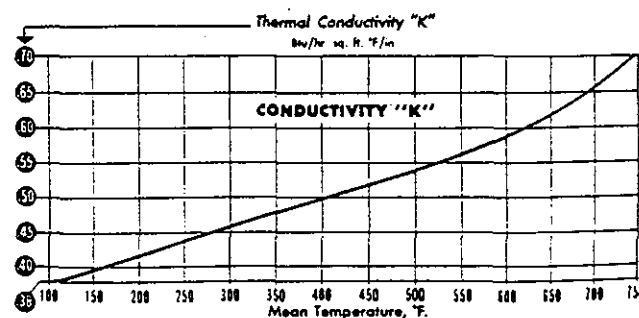


The segmented construction of Kaylo Pipe Insulation means easy installation. Simplified dimensions assure snug and accurate nesting.

Limitations

Kaylo Pipe Insulation is designed for pipes operating at temperatures up to 1200°F.

THERMAL CONDUCTIVITY



RECOMMENDED THICKNESSES inches

Resulting in Maximum Surface Temperature of 130°F. at 80°F. Ambient*											
Nominal Pipe Size	Operating Temperature °F.										
	280	380	480	580	680	780	880	980	1080	1180	
	Temperature Difference °F.										
	200	300	400	500	600	700	800	900	1000	1100	
½	1	1	1	1½	1½	2	2½	3	3	3½	
¾	1	1	1½	1½	2	2	2½	3	3½	3½	
1	1	1	1½	1½	2	2	2½	3	3½	3½	
1¼	1	1	1½	2	2	2½	2½	3	3½	3½	
1½	1	1	1½	2	2½	2½	3	3½	3½	4	
2	1	1	1½	2	2	2½	3	3	3½	4	
2½	1	1	2	2	2½	3	3	4	4½	4½	
3	1	1	1½	2	2½	3	3	3½	4	4½	
4	1	1½	1½	2	2½	3	3½	3½	4	4½	
6	1	1½	2	2	2½	3	3½	4	4½	5	
8	1½	1½	2	2½	2½	3	3½	4	4½	5	
10	1½	1½	2	2½	3	3½	4	4½	5	5½	
12	1½	1½	2	2½	3	3½	4	4½	5	5½	
14	1½	1½	2	2½	3	3½	4	5	5½	6	
16 and Up	1½	1½	2	2½	3	4	4½	5	5½	6	

*Many services permit higher or lower surface temperatures and efficiencies. Recommended thicknesses for surface temperatures of 110°, 120° and 140° available on request.

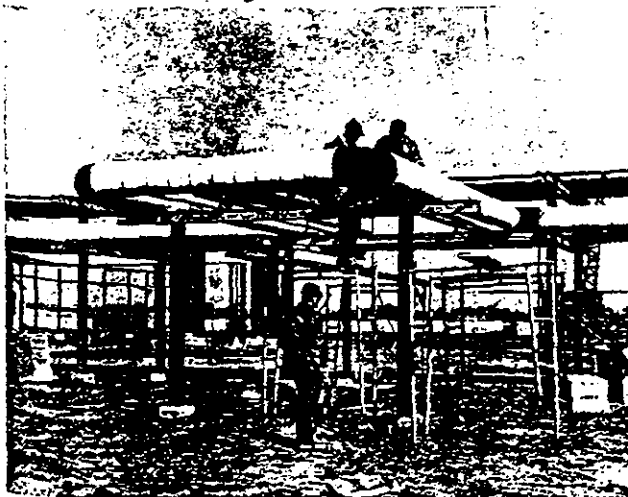
Standard Sizes, Thicknesses and Forms

PIPE SIZE		NOMINAL THICKNESS OF INSULATION																		FORMS	
Nom- inal	O.D.	1		1½		2		2½		3		3½		4		4½		5			
		Actual	O.D.	Actual	O.D.	Actual	O.D.	Actual	O.D.	Actual	O.D.	Actual	O.D.	Actual	O.D.	Actual	O.D.	Actual	O.D.		
½"	.84	1.00	2.88	1.56	4.00	2.06	5.00	2.35	5.56	2.88	6.63									 Sectional	
¾"	1.05	.90	2.88	1.46	4.00	1.96	5.00	2.24	5.56	2.77	6.63										
1"	1.32	1.08	3.50	1.58	4.50	2.11	5.56	2.64	6.63	3.14	7.63										
1¼"	1.66	.90	3.50	1.40	4.50	1.94	5.56	2.47	6.63	2.97	7.63										
1½"	1.90	1.03	4.00	1.53	5.00	1.82	5.56	2.35	6.63	2.85	7.63									 Tri-Segmental	
2"	2.38	1.03	4.50	1.56	5.56	2.09	6.63	2.59	7.63	3.09	8.63	3.59	9.63	4.16	10.75	4.66	11.75	5.16	12.75		
2½"	2.88	1.03	5.00	1.31	5.56	1.84	6.63	2.34	7.63	2.84	8.63	3.34	9.63	3.91	10.75	4.41	11.75	4.91	12.75		
3"	3.50	1.00	5.56	1.53	6.63	2.03	7.63	2.53	8.63	3.03	9.63	3.59	10.75	4.09	11.75	4.59	12.75	5.22	14.00		
3½"	4.00	.75	5.56	1.28	6.63	1.78	7.63	2.28	8.63	2.78	9.63	3.34	10.75	3.84	11.75	4.34	12.75	4.97	14.00		
4"	4.50	1.03	6.63	1.53	7.63	2.03	8.63	2.53	9.63	3.09	10.75	3.59	11.75	4.09	12.75	4.72	14.00	5.22	15.00		
4½"	5.00	.78	6.63	1.28	7.63	1.78	8.63	2.28	9.63	2.84	10.75	3.34	11.75	3.84	12.75	4.47	14.00	4.97	15.00		
5"	5.56	1.00	7.63	1.50	8.63	2.00	9.63	2.56	10.75	3.06	11.75	3.56	12.75	4.19	14.00	4.69	15.00	5.19	16.00		
6"	6.63	.94	8.63	1.44	9.63	2.00	10.75	2.50	11.75	3.00	12.75	3.63	14.00	4.13	15.00	4.68	16.00	5.13	17.00		
7"	7.63			1.50	10.75	2.00	11.75	2.50	12.75	3.13	14.00	3.63	15.00	4.13	16.00	4.68	17.00	5.13	18.00		
8"	8.63			1.50	11.75	2.00	12.75	2.63	14.00	3.13	15.00	3.63	16.00	4.13	17.00	4.63	18.00	5.13	19.00		
9"	9.63			1.50	12.75	2.13	14.00	2.63	15.00	3.13	17.00	3.63	17.00	4.13	18.00	4.63	19.00	5.13	20.00		
10"	10.75			1.56	14.00	2.06	15.00	2.56	16.00	3.06	17.00	3.56	18.00	4.06	19.00	4.56	20.00	5.06	21.00		
11"	11.75			1.56	15.00	2.06	16.00	2.56	17.00	3.06	18.00	3.56	19.00	4.06	20.00	4.56	21.00	5.06	22.00		
12"	12.75			1.55	16.00	2.05	17.00	2.55	18.00	3.05	19.00	3.55	20.00	4.05	21.00	4.55	22.00	5.05	23.00		
14"	14.00			1.42	17.00	1.92	18.00	2.42	19.00	2.92	20.00	3.42	21.00	3.92	22.00	4.42	23.00	4.92	24.00		
15"	15.00			1.42	18.00	1.92	19.00	2.42	20.00	2.92	21.00	3.42	22.00	3.92	23.00	4.42	24.00	4.92	25.00		
16"	16.00			1.41	19.00	1.91	20.00	2.41	21.00	2.91	22.00	3.41	23.00	3.91	24.00	4.41	25.00	4.91	26.00		
17"	17.00			1.41	20.00	1.91	21.00	2.41	22.00	2.91	23.00	3.41	24.00	3.91	25.00	4.41	26.00				
18"	18.00			1.41	21.00	1.91	22.00	2.41	23.00	2.91	24.00	3.41	25.00	3.91	26.00						
19"	19.00	sizes 7 to 72		1.41	22.00	1.91	23.00	2.41	24.00	2.91	25.00	3.41	26.00								
20"	20.00			1.41	23.00	1.91	24.00	2.41	25.00	2.91	26.00										
21"	21.00			1.41	24.00	1.91	25.00	2.41	26.00												
22"	22.00			1.41	25.00	1.91	26.00														
23"	23.00			1.41	26.00																

Single Layer

Multiple Layer

Note: The shaded sizes in the table above available in either single or double layers.



Kayle Pipe Insulation is light, strong and easy to handle. It is effectively and economically used on outdoor pipe lines.



Simple and rapid installation is an important factor in the choice of pipe insulation. Kayle installation costs are low.