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OWENS-CORNING
FIBERGLAS

KAYLO PIPE & EQUIPMENT INSULATION

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- FOR HEATED INDOOR & OUTDOOR APPLICATIONS { KAYLO UP TO 1200° F. / KAYLO-20 UP TO 1800° F



KAYLO PIPE & BLOCK INSULATION

- EXCELLENT THERMAL EFFICIENCY
- BROAD TEMPERATURE RANGE
- HIGHLY MOISTURE-RESISTANT

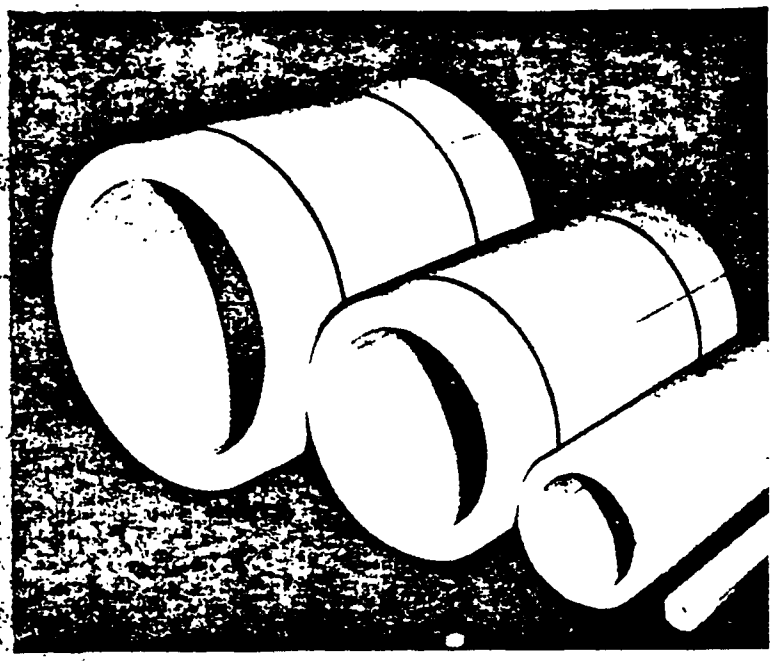
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KAYLO insulation

note:

high temperature insulation for indoor or outdoor piping up to 1200° F. operating temperature





Kaylo Pipe Insulation presents a superior final appearance when applied to a variety of irregularly-shaped high temperature vessels.

(for temperatures ranging from 1200°F. to 1800°F., see Kaylo-20, page 6)

Kaylo* pipe insulation, a white, rigid hydrous calcium silicate heat insulation, manufactured by Owens-Corning Fiberglas Corporation, effectively insulates indoor and outdoor piping to 1200°F. A chemically reacted material, Kaylo pipe insulation contains no added binder. For mechanical effects, a small amount of asbestos fiber is included at the time of manufacture.

This thoroughly tested and field-proven material contains the physical properties most desired for efficient, durable insulation work. It retains an appreciable percentage of its strength even after complete saturation in water, original efficiency returning after drying. The effectiveness, high strength and moisture resistance are unattained by most other insulating materials.

sizes

thickness—Kaylo Pipe Insulation is available in thicknesses from 1" to 3" depending upon pipe size. Kaylo Tube Insulation is available in thicknesses of 1" and 1½".

pipe sizes—Kaylo Pipe Insulation is available to fit pipe from ½" to 39" in diameter. Kaylo Tube Insulation will fit copper tubing from ½" to 3⅛" in diameter.

forms—Kaylo Pipe Insulation is available in sectional or multisegmental form depending upon pipe size. All insulation is furnished in 3' sections.

jackets

canvas—Kaylo Sectional Pipe Insulation includes standard canvas jackets, at no additional charge, on thicknesses up to and including 2½". Standard canvas is available on segmental forms at a slight additional cost. Bands are available for use with this product at slight additional charge and will be furnished on request.

6 oz. and 8 oz. canvas jackets are available for all types, sizes and thicknesses of Kaylo Pipe and Tube Insulation at an additional charge. These jackets are factory applied on Sectional Pipe and Tube Insulation. On Multisegmental forms, they are furnished but not adhered.

limitations

Kaylo Pipe Insulation is designed for temperatures up to 1200°F. and is not recommended when operating temperatures of piping exceed this limit.

*T. M. Owens-Corning Fiberglas Corp.

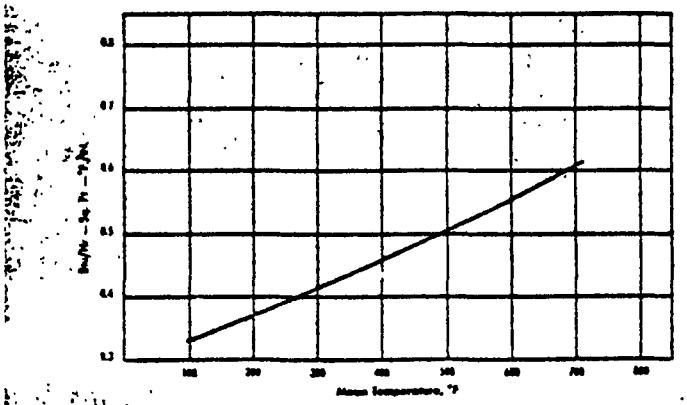
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physical properties

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.
resistance to abrasion	
(conventional tumbling test-loss in weight after 10 min.)	
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.	1.4%
elongation after saturation (max.)	0.04%
moisture adsorption (volume)	
after 6 hours exposure in atmosphere of 120°F. and 90% relative humidity	0.9%

thermal conductivity



ease of application

Kaylo Pipe Insulation applies easily with standard tools.



specifications

for insulation of piping with Kaylo and Kaylo-20 pipe insulation

specification compliance

HH-I-523a Insulation Block, Pipe Covering and Cement, Thermal, Calcium Silicate (For Temperatures up to 1200°F.)

MIL-I-2781B Insulation Pipe Covering, Thermal

1. Insulating materials

All heated pipes shall be insulated to the thickness noted on drawings or as shown in the table on page 5 as manufactured by Owens-Corning Fiberglas Corporation.

2. Application

All Pipe Insulation shall be applied over clean, dry surfaces, butting adjoining sections firmly together. Insulation on pipes under 12" diameter shall have factory-applied canvas pasted neatly in place.

Insulation on pipes over 12" diameter and all outdoor piping shall be wired in place with 16 gauge soft annealed wire on no greater than 9" centers. 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 fabricated mitered segments of pipe insulation equal in thickness to the insulation on the adjoining pipe. Fittings on pipe size of 3" and smaller may be insulated with insulating cement of equal thickness.

3. Surface finish

Indoor piping under 12" diameter not subject to abrasion or mechanical abuse requires no finish in addition to the factory-furnished canvas. Piping over 12" diameter shall be finished with 6-ounce canvas pasted in place.

Piping located outdoors shall be finished with 45-lb. roofing felt jacket with all joints lapped not less than 2". Jackets shall be wired with 16 ga. copper wire on not greater than 9" centers or banded on 12" centers with ½" galvanized bands. Other suitable weatherproof jackets such as metal, asphalt or plastic coating may be applied according to the jacket manufacturers' specifications.

Insulation on flanges, valves and fittings shall be covered with a ¼" coat of finishing cement. Portland cement to a maximum of 25% dry weight may be added if a harder finish is desired. Insulation located indoors shall be further 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" dry coat and shall be troweled neatly over the fitting with the jacket on the adjacent pipe insulation lapped at least 2" over the mastic.

The foregoing is necessarily general in nature. Application procedure is at the discretion and responsibility of the design engineer to meet specific job requirements.

Owens-Corning Fiberglas, Kaylo Pipe and Equipment Insulation, with Its 1953 Piping and Equipment Catalog (1953)
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design data

The following data is presented to aid in the design of Kaylo Pipe Insulation modified to meet specific needs. Recommendations are generalized and should be modified to meet local conditions and job requirements.

This table presents reference data for information on the actual thicknesses according to the simplified Dimensional Standard system.

Kaylo pipe insulation applies easily and quickly with standard application methods. Ordinary tools of the trade are sufficient for all cutting, sawing or scoring. It is non-irritating to the skin and non-toxic.

Economical thicknesses of insulation vary to a substantial degree in different industries principally because of:

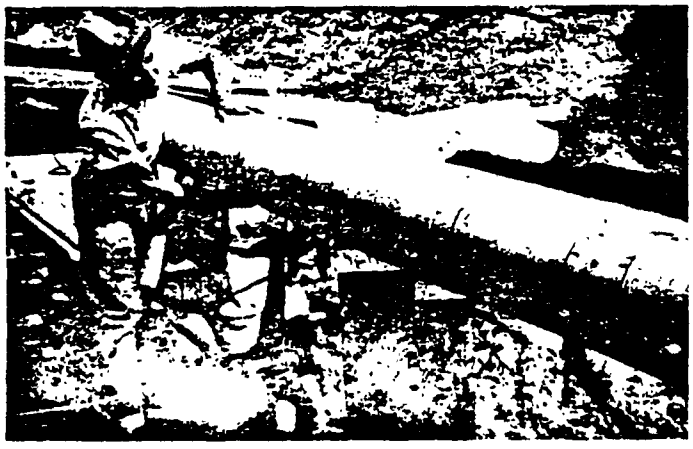
1: Cost of fuel operation time
2: Fixed charges or anticipated life of installation

Economical Thickness recommendations may not apply where insulation is applied for process temperature control, personnel protection or fire protection for specific areas. Refer to Kaylo Performance Data Book for insulation design for such conditions.

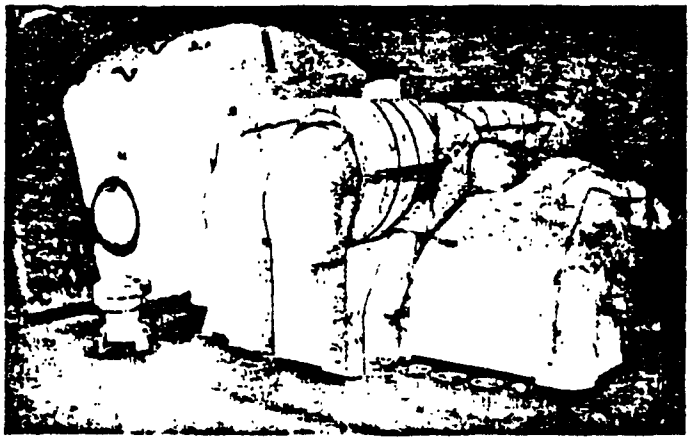
Because these two factors vary greatly by industry, a single table of recommended thickness would be only an approximation. To approach more closely a true "Economical Thickness," the recommended thickness data on the following three pages is presented for three major industry groups:

C — Commercial and Industrial
U — Power and Utility
P — Process Industries

applications—Kaylo and Kaylo-20



Off-site yard steam insulated with Kaylo Pipe Insulation for efficiency controlled temperatures at distant points.

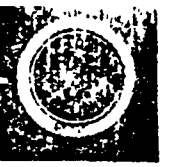


Kaylo 20 Insulation being used on the head of a high pressure turbo generator.



Kaylo Pipe Insulation application on high pressure steam piping central station generating facilities.

Owens-Corning Fiberglas, Kaylo Pipe and Equipment Insulation, with Its 1953 Piping and Equipment Catalog (1953)
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to 1200° F.

recommended thicknesses—Kaylo

(ambient still air at 80°F.)

pipe temp.	280°F				480°F				680°F			
temp. diff.	200°F				400°F				600°F			
pipe size	RT	HL	E	ST	RT	HL	E	ST	RT	HL	E	ST
½	1	28.6	79.0	100	1½	52.5	86.7	107	2	77.0	90.6	110
¾	1	34.2	79.5	104	1½	60.0	87.6	110	2½	74.4	92.7	103
1	1	35.9	82.6	101	1½	65.3	89.0	109	2½	85.9	93.1	106
1¼	1	45.8	82.0	108	1½	73.2	90.1	110	2½	98.3	93.7	109
1½	1	46.3	84.0	104	2	65.8	92.2	103	3	89.0	95.0	102
2	1	53.5	84.9	105	2	80.3	92.8	107	3	108	95.1	108
2½	1	61.5	85.5	106	2	83.7	93.3	105	3	115	96.1	107
3	1	72.7	85.7	108	2½	90.8	93.9	104	3½	124	96.1	107
4	1	86.4	86.5	108	2½	107	94.4	105	3½	146	96.4	108
5	1	106	86.5	110	2½	126	94.6	107	3½	164	96.7	110
6	1½	94.2	90.0	103	2½	143	94.8	109	4	170	97.1	107
7	1½	102	90.3	103	2½	162	94.8	109	4	190	97.2	108
8	1½	114	90.4	104	2½	174	95.0	110	4	210	97.2	109
9	1½	125	90.4	104	2½	188	95.2	110	4	222	97.4	110
10	1½	133	90.8	104	3	179	95.9	106	4½	226	97.6	108
12	1½	153	91.0	104	3	210	95.9	107	4½	250	97.7	109
14	1½	178	90.4	106	3	235	95.8	108	4½	275	97.7	109
16	1½	201	90.4	107	3	255	95.9	109	5	286	97.9	108
18	1½	223	90.5	108	3	285	96.0	110	5	320	97.9	109
20	1½	246	90.5	108	3½	272	96.5	106	5	353	97.9	110
24	1½	291	90.5	108	3½	319	96.6	107	5½	364	98.2	108

KEY

RT— Recommended Thickness.

HL— Heat Loss Btu/Lin. ft./hr.

E— Insulation Efficiency.

ST— Surface Temperature.

pipe temp	280°F				480°F				680°F				880°F				1080°F				1280°F			
temp. diff.	200°F				400°F				600°F				800°F				1000°F				1200°F			
pipe size	RT	HL	E	ST	RT	HL	E	ST	RT	HL	E	ST	RT	HL	E	ST	RT	HL	E	ST	RT	HL	E	ST
½	1	28.6	79.0	100	1	63.0	84.0	120	1½	86.0	89.5	119	2	112	92.4	124	2½	128	94.8	118	2½	162	95.8	128
¾	1	34.2	79.5	104	1	75.2	84.4	128	1½	98.3	90.3	126	2	125	93.2	128	2½	144	95.3	122	3	171	96.5	124
1	1	35.9	82.6	101	1	79.2	86.7	123	1½	107	91.4	125	2	136	94.0	127	3	151	96	120	3	194	96.8	129
1¼	1	45.8	82.0	108	1½	73.2	90.1	110	1½	120	92.3	127	2½	143	95	123	3	175	96.3	125	3½	207	97.3	129
1½	1	46.3	84.0	104	1½	182.1	90.2	114	2	108	93.9	113	2½	146	95.5	119	3	177	96.8	122	3½	206	97.8	121
2	1	53.5	84.9	105	1½	93.5	91.0	114	2	132	94.	121	2½	170	95.8	126	3	208	96.9	130	4	228	97.9	125
2½	1	61.5	85.5	106	1½	96.1	92.3	111	2	137	94.8	117	2½	181	96.3	124	3	206	97.5	129	4	240	98.1	122
3	1	72.7	85.7	108	1½	126	91.5	120	2	164	94.9	128	3	197	96.6	124	3½	236	97.6	126	4	282	98.2	130
4	1	86.4	86.5	108	1½	154	91.9	123	2	202	95.0	128	3	222	97	124	3½	274	97.8	130	4½	300	98.5	128
5	1	106	86.5	110	1½	177	92.4	123	2½	206	95.9	122	3	266	97.1	128	4	292	98.1	125	4½	345	98.6	130
6	1	137	85.1	116	1½	207	92.4	126	2½	239	95.9	125	3½	268	97.5	122	4	332	98.5	129	5	370	98.7	129
7	1½	102	90.3	102	1½	224	92.8	125	2½	270	96	127	3½	297	97.6	125	4½	333	98.5	124	5	394	98.8	129
8	1½	114	90.4	103	1½	249	92.9	127	2½	287	95.2	127	3½	326	97.7	126	4½	366	98.5	125	5½	400	98.9	127
9	1½	125	90.4	108	1½	273	93.0	128	2½	313	96.3	128	3½	353	97.7	127	4½	400	98.5	128	5½	450	99.0	129
10	1½	133	90.8	103	1½	292	93.2	127	2½	348	96.3	129	3½	392	97.7	129	4½	440	98.5	130	6	461	99.0	128
12	1½	153	91.0	108	1½	338	93.7	128	2½	395	96.4	130	4	410	98	125	5	460	98.8	127	6	522	99.1	130
14	1½	178	90.4	106	2	325	94.1	123	3	385	96.8	125	4	447	98	128	5	500	98.7	129	6	568	99.1	133
16	1½	201	90.4	107	2	375	94.0	124	3	428	96.9	126	4	495	98.1	128	5	563	98.7	130	6	636	99.1	134
18	1½	223	90.5	108	2	410	94.2	125	3	480	96.9	127	4	540	98.1	129	5½	545	98.8	127	6	685	99.1	135
20	1½	246	90.5	108	2	460	98.4	126	3	535	96.9	128	4	594	98.1	130	5½	605	98.9	128	6	749	99.1	137
24	1½	291	90.5	108	2	525	94.3	126	3	610	97	128	4½	618	98.4	126	5½	685	98.9	129	6	856	99.2	138
½	1	28.6	79.0	100	1	63.0	84.0	120	1	108	86.8	147	1½	124	91.6	136	2	146	94.1	134	2	189	95.1	147
¾	1	34.2	79.5	104	1	75.2	84.4	128	1½	98.3	90.3	126	1½	145	92.1	145	2	166	94.6	141	2½	181	96.2	133
1	1	35.9	82.6	101	1	79.2	86.7	123	1½	107	91.4	125	2	136	94.0	127	2½	174	95.4	134	2½	208	96.5	139
1¼	1	45.8	82.0	108	1	102	86.3	134	1½	120	92.3	127	2	160	94.4	135	2½	188	96.1	135	3	218	97.1	136
1½	1	46.3	84.0	104	1	102	87.8	129	1½	135	92.4	132	2	156	95.2	126	2½	207	96.2	142	3	240	97.2	142
2	1	53.5	84.9	105	1	118	88.6	131	1½	154	93.0	134	2	189	95.3	135	2½	223	96.7	138	3	258	97.6	139
2½	1	61.5	85.5	106	1	135	89.1	134	1½	158	94.0	127	2	200	96.4	132	2½	237	97.1	134	3	276	97.9	137
3	1	72.7	85.7	108	1	160	89.3	137	1½	202	93.7	140	2	250	95.7	145	2½	292	97.0	147	3	332	97.9	148
4	1	86.4	86.5	108	1	191	89.9	138	1½	249	92.7	147	2	293	96.1	148	3	299	97.6	137	3½	347	98.3	140
5	1	106	86.5	110	1	240	89.6	144	1½	297	94.0	149	2½	294	96.8	137	3	347	97.8	140	3½	409	98.5	145
6	1	137	85.1	116	1½	207	92.4	126	2	270	95.4	133	2½	337	96.9	139	3	403	98	147	3½	453	98.5	147
7	1½	102	90.3	102	1½	224	92.8	125	2	302	95.5	134	2½	375	97.0	141	3½	386	98.3	135	3½	496	98.5	149
8	1½	114	90.4	103	1½	249	92.9	127	2	333	95.6	135	2½	399	97.2	140	3½	422	98.2	137	4	442	98.7	142
9	1½	125	90.4	104	1½	273	93.0	128	2	349	95.9	134	2½	435	97.2	142	3½	458	98.3	138	4	533	98.7	143
10	1½	133	90.8	103	1½	292	93.2	127	2	391	95.8	137	2½	442	97.2	146	3½	504	98.3	140	4	586	99.0	146
12	1½	153	91.0	104	1½	338	93.7	128	2	451	95.9	138	2½	563	97.3	148	3½	576	98.3	143	4	680	98.9	149
14	1½	178	90.4	106	1½	391	93.0	132	2	515	95.7	143	3	541	97.6	140	3½	642	98.3	147	4½	671	98.9	145
16	1½	201	90.4	107	1½	441	93.0	133	2	579	95.8	144	3	606	97.6	141	4	642	98.5	140	4½	762	98.9	144
18	1½	223	90.5	108	1½	492	93.0	134	2	640	95.9	147	3	671	97.7	142	4	707	98.6	142	5	736	99.1	140
20	1½	246	90.5	108	1½	541	93.1	134	2½	588	96.5	135	3	735	97.7	144	4	777	98.6	142	5	821	99.1	142
24	1½	291	90.5	108	1½	642	93.1	135	2½	690	97.0	136	3	870	97.7	147	4	903	98.6	144	5	955	99.1	144

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OWENS-CORNING
FIBERGLAS

KAYLO-20 insulation



Kaylo®-20 insulation, a new high-temperature calcium silicate heat insulator developed and manufactured by Owens-Corning Fiberglas extends the range of Kaylo heat insulation to include temperatures up to 1800°F. with all the properties of moisture resistance and high strength of standard Kaylo material. It also may be used with outer layers of Fiberglas pipe insulation to provide ultimate balance of cost and efficiency.

Kaylo-20 insulation is highly dimensionally stable at the temperatures for which it is designed. Resistance of this insulation to high temperatures makes it extremely useful for fireproofing piping.

sizes

thickness—Kaylo-20 Pipe Insulation is available in thicknesses from 1" to 3" depending upon pipe size. Kaylo-20 Tube Insulation is available in thicknesses of 1" and 1½".

pipe sizes—Kaylo-20 Pipe Insulation is available to fit pipe from ½" to 39" in diameter. Kaylo-20 Tube Insulation in copper tubing sizes will fit tubing from ½" to 3⅛".

forms—Kaylo-20 Pipe Insulation is available in sectional or multi-segmental form depending upon pipe size. All insulation is furnished in 3' sections.

jackets

canvas—Standard canvas jackets are provided at no additional charge with Kaylo-20 Sectional Pipe and Tube Insulation on thicknesses up to and including 2½". Bands are available for use with this product at a small additional charge and will be shipped only on request.

6 oz. and 8 oz. canvas jackets are available on all types, sizes and thicknesses of Kaylo-20 Pipe Insulation at additional charge. These jackets are factory applied on sectional pipe and tube insulation. On multi-segmental insulation, they are furnished but not adhered.

limitations

Kaylo-20 material is designed for temperatures up to 1800°F. It should not be used when operating temperatures of piping exceed this limit.

Kaylo-20 products are presently available on a made-to-order basis only. Properties and characteristics have been determined from laboratory tests only. Data is subject to change without notice and is subject to normal manufacturing testing tolerances.

*T. M. Owens-Corning Fiberglas Corp.

note:

high temperature insulation and fireproofing for indoor and outdoor piping up to 1800° F. operating temperature

physical properties

density:
approximately 12 lbs. per cu. ft.

flexural strength:
50 lbs. per sq. in.

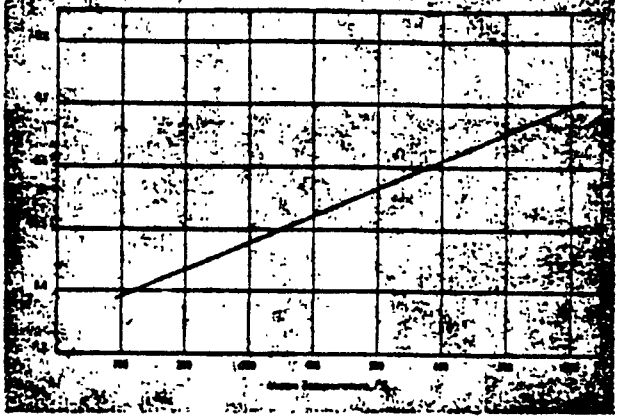
compressive strength:
100 lbs. per sq. in. at 5% deformation

dimensional stability:
linear shrinkage after heating for 24 hours:
at 1200° ..... less than 0.2%
at 1800° ..... less than 1.6%

moisture adsorption (by volume):
(after 6 hours exposure in atmosphere of 120° F. and 90% relative humidity) 0.9%

working temperature: up to 1800° F.

thermal conductivity

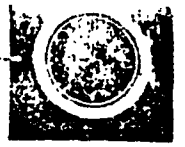


recommended thicknesses

These are average figures and may be adjusted to meet special conditions encountered on specific jobs. Kaylo heat loss data is available for use where plant operating economics and other conditions demand greater insulation thicknesses.

Pipe Size	Temperature Difference °F							
	1100	1200	1300	1400	1500	1600	1700	1800
	2½	2½	3	3	3½	3½	4	4
	2½	2½	3	3	3½	3½	4	4
	2½	3	3	3	3½	3½	4	4½
	2½	3	3	3½	3½	4	4½	4½
	3	3	3½	3½	3½	4	4½	5
	3	3	3½	3½	4	4	4½	5
	3	3½	3½	4	4	4½	5	5½
	3½	3½	3½	4	4	4½	5	5½
	3½	3½	4	4	4½	5	5½	6
	3½	3½	4	4	4½	5	5½	6
	4	4	4½	5	5	5½	6	6½
	4	4	4½	4½	5	5½	6	6½
10	4	4½	4½	5	5½	6	6½	7
12	4½	4½	5	5	5½	6	6½	7
14	4½	5	5	5½	6	6½	7	7½
16	4½	5	5½	6	6½	7	7½	8
18	5	5	5½	6	6½	7	7½	8
20	5	5½	6	6½	7	7½	8	8½
	5	5½	6	6½	7	7½	8	8½

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insulation thickness standards—Kaylo and Kaylo-20

KEY

IP — iron pipe sizes

CT — copper tubing

IP pipe size	CT tube size (approx.)	single layer only				single or double layer						multiple layer only							
		nom. 1"		nom. 1½"		nom. 2"		nom. 2½"		nom. 3"		nom. 3½"		nom. 4"		nom. 4½"		nom. 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.
⅛"	⅛"	1.00	2.88	1.56	4.00	2.06	5.00	2.89	6.66	3.39	7.66								
¼"	¼"	.90	2.88	1.46	4.00	1.96	5.00	2.79	6.66	3.29	7.66								
1"	1⅛"	1.08	3.50	1.58	4.50	2.11	5.56	2.66	6.66	3.16	7.66								
1¼"	1⅜"	.90	3.50	1.66	5.00	1.94	5.56	2.48	6.66	2.98	7.66								
1½"	1⅝"	1.03	4.00	1.53	5.00	2.36	6.66	2.86	7.66	3.36	8.86								
2"	2⅛"	1.04	4.50	1.57	5.56	2.12	6.66	2.62	7.66	3.12	8.66	3.62	9.66	4.18	10.78	4.68	11.78	5.20	12.81
2½"	2⅝"	1.04	5.00	1.87	6.66	2.37	7.66	2.87	8.66	3.37	9.66	3.93	10.78	4.43	11.78	4.95	12.81	5.57	14.06
3"	3⅛"	1.00	5.56	1.55	6.66	2.05	7.66	2.55	8.66	3.05	9.66	3.61	10.78	4.11	11.78	4.63	12.81	5.25	14.06
3½"	3⅝"	1.30	6.66	1.80	7.66	2.30	8.66	2.80	9.66	3.36	10.78	3.86	11.78	4.38	12.81	5.00	14.06	5.50	15.06
4"	4⅛"	1.05	6.66	1.55	7.66	2.05	8.66	2.55	9.66	3.11	10.78	3.61	11.78	4.13	12.81	4.75	14.06	5.25	15.06
4½"	4⅝"	1.30	7.66	1.80	8.66	2.30	9.66	2.86	10.78	3.36	11.78	3.88	12.81	4.50	14.06	5.00	15.06	5.51	16.09
5"	5⅛"	1.02	7.66	1.52	8.66	2.02	9.66	2.58	10.78	3.08	11.78	3.59	12.81	4.22	14.06	4.72	15.06	5.23	16.09
6"	6⅛"	.95	8.66	1.45	9.66	2.02	10.78	2.52	11.78	3.03	12.81	3.66	14.06	4.16	15.06	4.68	16.09	5.13	17.00
7"	7⅛"			1.52	10.78	2.02	11.78	2.53	12.81	3.16	14.06	3.66	15.06	4.17	16.09	4.63	17.00	5.13	18.00
8"	8⅛"			1.52	11.78	2.03	12.81	2.66	14.06	3.16	15.06	3.67	16.09	4.13	17.00	4.63	18.00	5.13	19.00
9"	9⅛"			1.53	12.81	2.16	14.06	2.66	15.06	3.17	16.09	3.63	17.00	4.13	18.00	4.63	19.00	5.13	20.00
10"	10⅛"			1.59	14.06	2.09	15.06	2.61	16.09	3.06	17.00	3.56	18.00	4.06	19.00	4.56	20.00	5.06	21.00
11"	11⅛"			1.58	15.06	2.09	16.09	2.55	17.00	3.05	18.00	3.55	19.00	4.05	20.00	4.54	21.00	4.55	22.00
12"	12⅛"			1.59	16.09	2.05	17.00	2.55	18.00	3.05	19.00	3.55	20.00	4.05	21.00	4.54	22.00	4.55	23.00
14"	14⅛"			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"	15⅛"			1.42	18.00	1.92	19.00	2.41	20.00	2.92	21.00	3.42	22.00	3.92	23.00	4.41	24.00	4.92	25.00
16"	16⅛"			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"	17⅛"			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	4.91	27.00
18"	18⅛"			1.41	21.00	1.91	22.00	2.41	23.00	2.91	24.00	3.41	25.00	3.91	26.00	4.41	27.00	4.91	28.00
19"	19⅛"			1.41	22.00	1.91	23.00	2.41	24.00	2.91	25.00	3.41	26.00	3.91	27.00	4.41	28.00	4.91	29.00
20"	20⅛"			1.41	23.00	1.91	24.00	2.41	25.00	2.91	26.00	3.41	27.00	3.91	28.00	4.41	29.00	4.91	30.00
21"	21⅛"			1.41	24.00	1.91	25.00	2.41	26.00	2.91	27.00	3.41	28.00	3.89	29.00	4.41	30.00	4.91	31.00
22"	22⅛"			1.41	25.00	1.91	26.00	2.41	27.00	2.91	28.00	3.39	29.00	3.89	30.00	4.41	31.00	4.91	32.00
23"	23⅛"			1.41	26.00	1.91	27.00	2.41	28.00	2.91	29.00	3.39	30.00	3.89	31.00	4.41	32.00	4.91	33.00
Quad. Seg. 24"	24⅛"			1.41	27.00	1.91	28.00	2.41	29.00	2.91	30.00	3.39	31.00	3.89	32.00	4.41	33.00	5.00	34.00
25"	25⅛"			1.46	28.00	1.98	29.00	2.50	30.00	3.02	31.00	3.44	32.00	3.96	33.00	4.48	34.00	5.00	35.00
26"	26⅛"			1.46	29.00	1.98	30.00	2.50	31.00	3.02	32.00	3.44	33.00	3.96	34.00	4.48	35.00	5.00	36.00
27"	27⅛"			1.46	30.00	1.98	31.00	2.50	32.00	3.02	33.00	3.44	34.00	3.96	35.00	4.48	36.00	5.00	37.00
28"	28⅛"			1.46	31.00	1.98	32.00	2.50	33.00	3.02	34.00	3.44	35.00	3.96	36.00	4.48	37.00	5.00	38.00
29"	29⅛"			1.46	32.00	1.98	33.00	2.50	34.00	3.02	35.00	3.44	36.00	3.96	37.00	4.48	38.00	5.00	39.00
30"	30⅛"			1.46	33.00	1.98	34.00	2.50	35.00	3.02	36.00	3.44	37.00	3.96	38.00	4.48	39.00	5.00	40.00
31"	31⅛"			1.46	34.00	1.98	35.00	2.50	36.00	3.02	37.00	3.44	38.00	3.96	39.00	4.48	40.00	5.00	41.00
32"	32⅛"			1.46	35.00	1.98	36.00	2.50	37.00	3.02	38.00	3.44	39.00	3.98	40.00	4.48	41.00	5.00	42.00
33"	33⅛"			1.46	36.00	1.98	37.00	2.50	38.00	3.02	39.00	3.48	40.00	3.98	41.00	4.48	42.00	5.00	43.00
34"	34⅛"			1.46	37.00	1.98	38.00	2.50	39.00	3.02	40.00	3.48	41.00	3.98	42.00	4.48	43.00	5.00	44.00
35"	35⅛"			1.46	38.00	1.98	39.00	2.50	40.00	3.02	41.00	3.48	42.00	3.98	43.00	4.48	44.00	5.00	45.00
36"	36⅛"			1.46	39.00	1.98	40.00	2.50	41.00	3.02	42.00	3.48	43.00	3.98	44.00	4.48	45.00	5.00	46.00
37"	37⅛"			1.46	40.00	1.98	41.00	2.50	42.00	3.02	43.00	3.48	44.00	3.98	45.00	4.48	46.00	5.00	47.00
38"	38⅛"			1.46	41.00	1.98	42.00	2.50	43.00	3.02	44.00	3.48	45.00	3.98	46.00	4.48	47.00	5.00	48.00
39"	39⅛"			1.46	42.00	1.98	43.00	2.50	44.00	3.02	45.00	3.48	46.00	3.98	47.00	4.48	48.00	5.00	49.00

IP

CT

CT tube size	tube (approx.)	single layer			
		nom. 1"		nom. 1½"	
		actual	O.D.	actual	O.D.
⅜"	½"	1.18	2.88	1.49	3.50
½"	⅝"	1.11	2.88	1.42	3.50
⅝"	¾"	1.05	2.88	1.61	4.00
¾"	⅞"	.99	2.88	1.55	4.00
1"	1⅛"	1.17	3.50	1.42	4.00
1¼"	1⅜"	1.05	3.50	1.55	4.50
1½"	1⅝"	1.17	4.00	1.42	4.50
2"	2⅛"	.91	4.00	1.41	5.00
2½"	2⅝"	.91	4.50	1.45	5.56
3"	3⅛"	.91	5.00	1.73	6.66

Note: Sizes above 3" available in multiple layers.

Insulation for the nominal pipe size range of 25"-39" is furnished to fit a range of 5 pipe sizes. The last segment applied must be cut to fit accurately.

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branch offices . . .

Fiberglas Industrial Contractors who sell and apply Fiberglas Industrial Insulations are located in principal cities. Call your Fiberglas branch for their addresses or see the yellow pages of the telephone directory.

ALASKA	Anchorage, Pos[illegible]
ARIZONA	Phoe[illegible]
CALIFORNIA	
FLORIDA	
GEORGIA	Atlanta, [illegible]
IDAHO	Boise, 27 A[illegible]
ILLINOIS	Chicago 1, [illegible]
	Rock Island 4, [illegible]
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	Indianapolis 4, [illegible] Builders Bldg.
IOWA	Des Moines, 517 Fifth Stree[illegible]
KANSAS	Wichita, 1135 No. Mosley
KENTUCKY	Louisville 2, 2106 Hahn S[illegible]
LOUISIANA	New Orleans 19, 306 [illegible] American Life Ins. Building
MARYLAND	Baltimore 2, Commercial [illegible] Building
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NEW MEXICO	Albuquerque, 10[illegible] Rd.
NEW YORK	Albany Loudonville [illegible] at Rensselaer Ave
	Buffalo 2, 401 Hodge Building
	New York 22, 16 East 56th Street
	Syracuse 2, 218 Harrison Street
	Rochester 18, 179[illegible] Monroe Avenue
NORTH CAROLINA	Charlotte, 1106 Johnston Building
OHIO	Cincinnati 6, [illegible] 103, 2330 Victory Parkway
	Cleveland 15, 10[illegible] Hanna Building
	Columbus 15, 21[illegible] Lincoln Tower
	Dayton 19, 280[illegible] Ave., Room 308
	Toledo 1, 642 [illegible] Bank Building
OKLAHOMA	Tulsa, 902 Amer[illegible] Building
OREGON	Portland 4, 10[illegible] Building
PENNSYLVANIA	Philadelphia [illegible] Walnut Street Bldg.
	Pittsburgh, 631 G[illegible] Fulton Bldg. No. 2
SOUTH CAROLINA	Greenville, 216 [illegible] Building
TENNESSEE	Memphis, 81[illegible] D[illegible] Bldg. 46 North Third Street
	Nashville, P.O. B[illegible] 2[illegible]
TEXAS	Dallas 4, 101 United Insurance Life Building
	Houston 19, 1939 [illegible] Civic Street, Room 204
	San Antonio, 32[illegible] Moore Building
UTAH	Salt Lake City 1[illegible] South Third West
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	Richmond 2[illegible] Avenue
WASHINGTON	Seattle 4, 10[illegible] Building
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WISCONSIN	Milwaukee 3, 20[illegible] Wisconsin Avenue
DISTRICT OF COLUMBIA	Washington 6, [illegible] Connecticut Avenue N.W.
INTERNATIONAL DIVISION	16 East 56th St., New York, N.Y.

[illegible]ing Fiberglas Corporation

PACIFIC COAST, Santa Clara, Calif. — TEXTILE PRODUCTS, [illegible] York, N.Y.

GENERAL OFFICES AND GENERAL PRODUCTS, Toledo, Ohio

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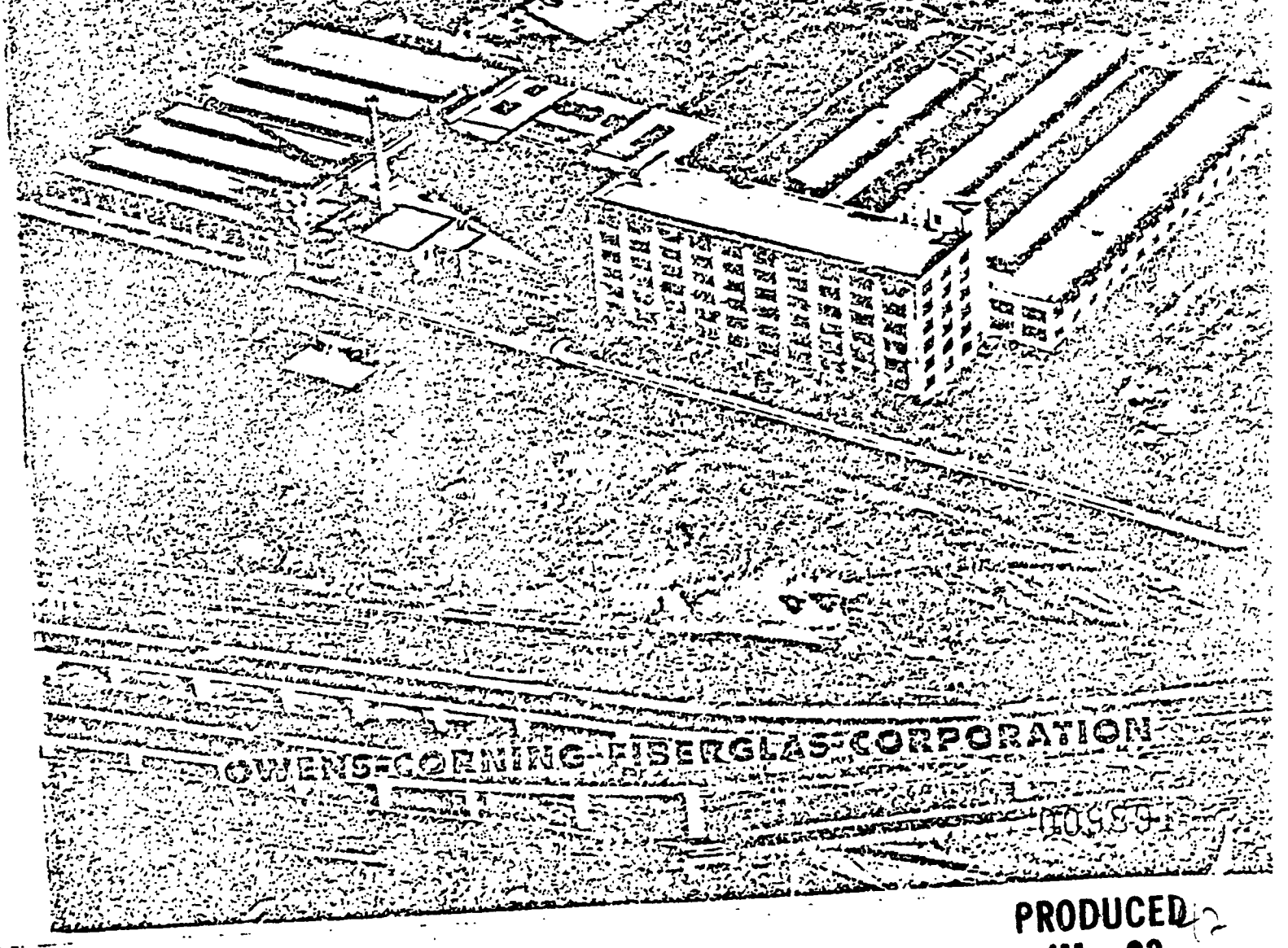
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for

PIPING and EQUIPMENT



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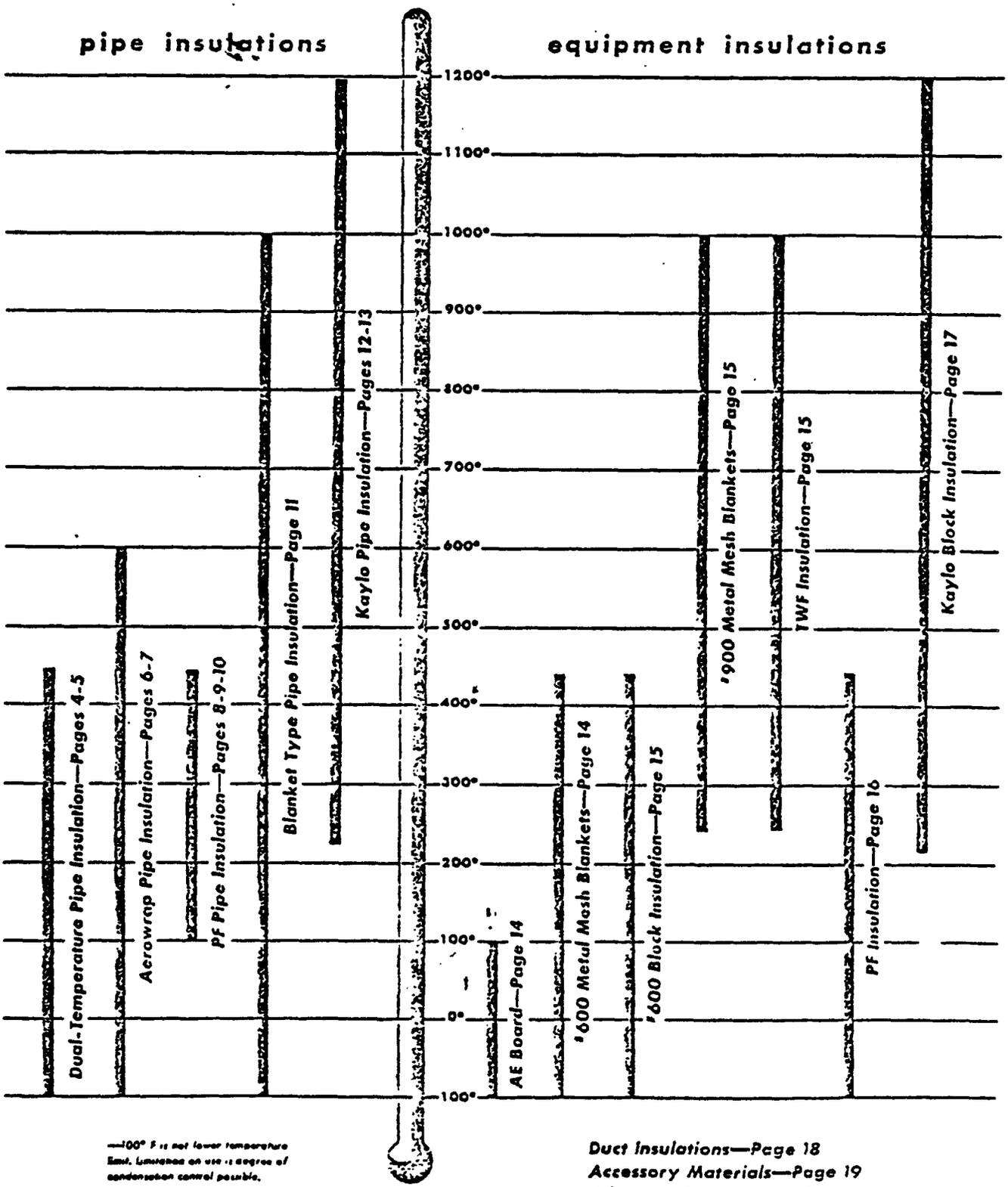
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FIBERGLAS

PRODUCT SELECTOR GUIDE and INDEX



—100° F is not lower temperature limit. Luminous on use is degree of condensation control possible.

Duct Insulations—Page 18
Accessory Materials—Page 19
Where to Buy—Page 20

IN6-A2, August, 1953

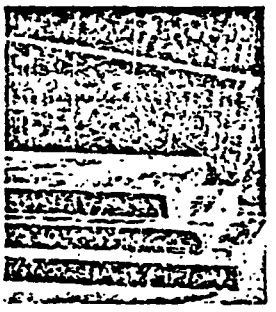
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A COMPLETE LINE OF INSULATIONS for temperatures up to 1200°F.

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.



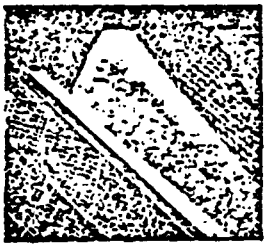
Fiberglas AE Board

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.



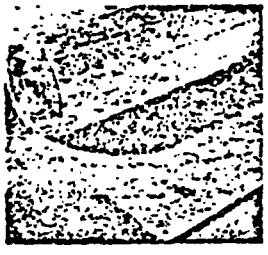
Fiberglas Dual Temperature Pipe Insulation

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.



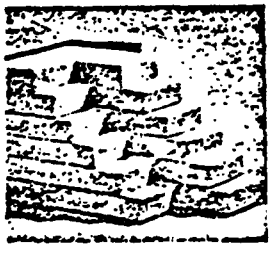
Fiberglas Metal Mesh Blanket

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.



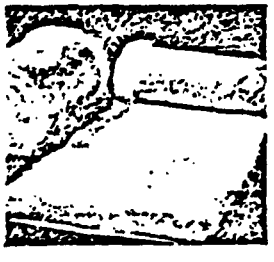
Fiberglas No. 600 Block Insulation

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.



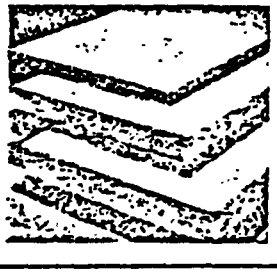
Fiberglas TW-F Insulating Wool

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 preformed 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.

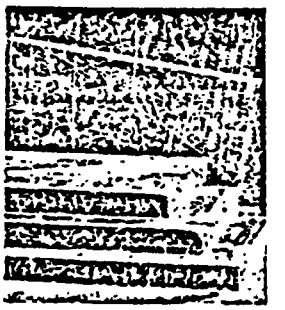
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A COMPLETE LINE OF INSULATIONS (for temperatures up to 1200°)

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.



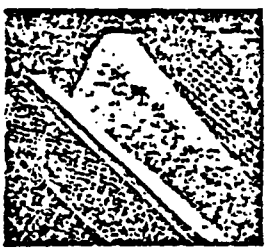
Fiberglas AE Board

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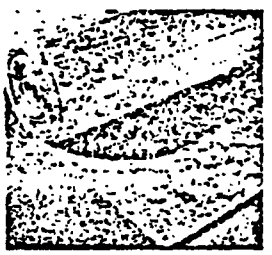
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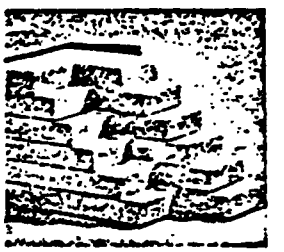
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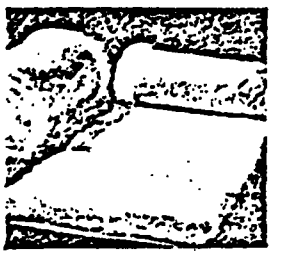
Fiberglas No. 600 Block Insulation

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.



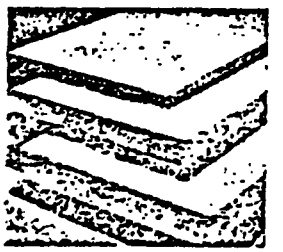
Fiberglas TW-F Insulating Wool

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 resin-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 preformed 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.

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Recommended Usage

Dual-Temperature Pipe Insulation is recommended for low temperature and dual-service lines. Specifications given are for low temperature applications since precautions must be gauged to the lowest temperature condition to be encountered.

The insulation may be used indoors or out. For outdoor usage a roofing felt or other suitable jacket should be applied for weather protection. This jacket should be weather sealed.

Application

Simplicity of design, segment construction, integral vapor barrier and accurate dimensions make Dual-Temperature pipe insulation easy to install. Costs are lower, time shorter.

To apply sections, vapor barrier mastic is applied to the flap to seal it and hold insulation in place. Four-inch wide strips of vapor barrier material are used to seal end joints between 3-foot sections of insulation. Bands are used for permanent attachment.

On pipes larger than 12 inches, segmented insulation is used. Segments are placed to enclose pipe and temporarily held in place with wire ties. The jacket, supplied separately, is then applied and sealed.

Finishing

The black vapor barrier jacket serves as finish for most interior applications. Where desired, it may be painted with traffic white paint, asphalt base aluminum paint or glossy black asphaltic paint or covered with resin sized paper and 6 oz. canvas and then painted. Outdoor finishes can include roofing felt, light corrugated aluminum or weatherproof mastics reinforced with glass fabric.

Suggested Specification

Insulating Material

Piping shall be insulated with Fiberglas Dual Temperature Pipe insulation as manufactured by Owens-Corning Fiberglas Corporation. Material shall be applied (in the thickness shown on drawings or list) (to a thickness of ——inches).

Application

Fiberglas Dual Temperature Pipe Insulation shall be applied over clean dry surfaces with the pipe at approximately room temperature. Adjoining sections shall be butted firmly together, and the longitudinal seam of the vapor barrier jacket shall be sealed with Fiberglas Vapor Seal Adhesive. End joints shall be sealed with 4-inch factory-furnished vapor barrier strips applied with Fiberglas Vapor Seal Adhesive. In multiple layer construction all joints shall be staggered.

Ends of pipe insulation shall be sealed off with Fiberglas Vapor Seal Adhesive at all hangers, flanges, valves and fittings and at intervals of not more than 21 feet on continuous runs of pipe.

All flanges, valves and fittings shall be insulated with molded or fabricated insulation or by wrapping with Fiberglas Aerowrap to a thickness equal to that of the insulation on the adjoining pipe, securely fastened in place.

When in direct contact with the pipe, hangers shall be insulated separately and sealed off from the pipe insulation in the same manner as for fittings. The insulation shall be applied upward along the vertical hanger rod to a point not less than 12 inches from the adjacent pipe finish and sealed off.

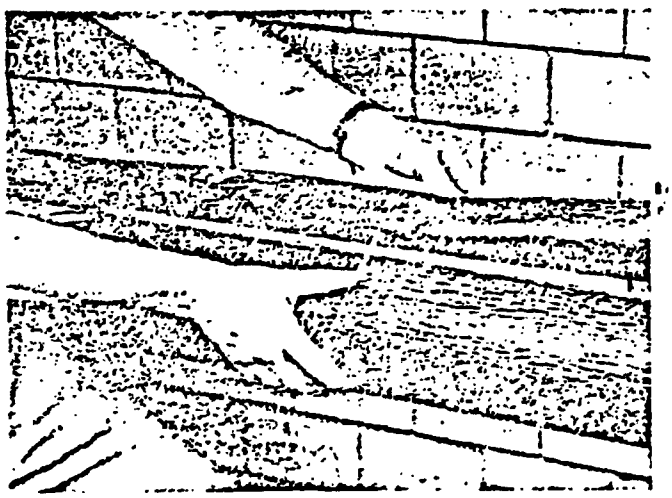
Surface Finish

Piping located indoors not to be painted shall be finished with factory-furnished bands on the outer layer of insulation. One band shall be applied over each edge of the sealing strip and another at mid-section of insulation. Indoor protective finishes shall include one heavy coat of shiny, black asphaltic paint or asphalt-base aluminum paint.

Piping located indoors requiring canvas and paint shall be covered with a layer of rosin-sized paper and 6-oz. canvas.

Piping located outdoors shall be finished with a layer of roofing felt lapped three inches at all joints and sealed with lap cement. The felt shall be held in place by loops of No. 16 galvanized soft annealed wire spaced on not more than 5-inch centers. Wires shall not be allowed to pierce jacket at any point.

Insulation on flanges, valves and fittings shall be finished with a ¼-inch layer of Fiberglas Vapor Seal Adhesive (over friction tape or glass fabric if flexible insulation is used) troweled smooth and sealed over the edges of the adjacent jacket. Outdoor finish of these elements shall include a second ¼-inch thick coat of Fiberglas O-C Mastic reinforced with a tight exterior wrapping of open mesh glass fabric pressed well into mastic.



Careful sealing of joints is necessary to prevent vapor from reaching pipes where it may condense or freeze.



Dual-Temperature pipe insulation used on cold piping in humid southern factory. Vapor barrier will prevent condensation.

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OWENS-CORNING

FIBERGLAS

FIBERGLAS AEROWRAP PIPE INSULATION

Description

Fiberglas Aerowrap is produced as a gray, resilient, lightweight blanket of extremely fine glass fibers bonded with resin. It is one of the most versatile and most efficient pipe insulating materials known, especially suitable for maintenance applications on standard piping and for use on steam-traced and gang lines. It is recommended for temperatures up to 600°F.

Properties

Aerowrap combines all the excellent insulating qualities common to Fiberglas insulations. It has exceptionally low thermal conductivity. The applied k-factor averages less than .25 at 75°F. mean temperature and is consistently lower than that of most molded type pipe insulations.

Size

Fiberglas Aerowrap is furnished in standard rolls 100 feet long and 36 inches wide with a standard thickness of ¾ inch. In application the material is compressed to a thickness of ½ inch. Made-to-order thicknesses include ½, 1 and 1½ inches.

Advantages

Efficiency—Fiberglas Aerowrap assures heat savings up to 25 per cent greater than most rigid insulations can offer.

Durability—Aerowrap compresses readily and springs back into its original shape undamaged. This characteristic resiliency enables Aerowrap to withstand vibration and the pressure of ladders and traffic better than most rigid type pipe insulations.

No Thermal Shock Damage—The natural resiliency of Aerowrap enables it to withstand thermal shock and wide temperature variations without damage.

Fast, Easy Application—Aerowrap is a wrap-around insulation. It requires little time for application. It is feather-light and easy to handle, and can be readily cut with a knife.

Adaptability—Aerowrap is flexible and unrestricted in use as a pipe insulation. It is equally effective for nested lines, odd-shaped pipe assemblies, and standard pipe runs.

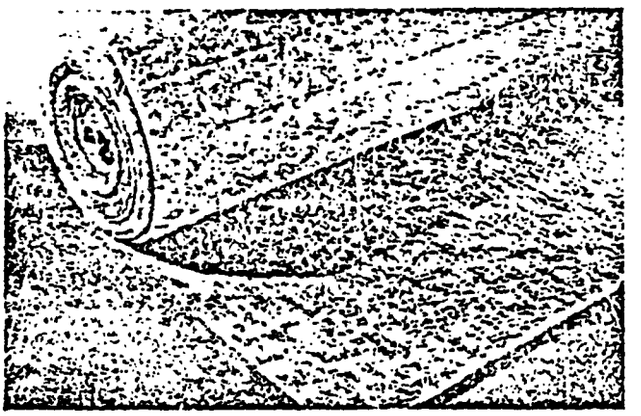
Economy—Low material cost and minimum application expense combine to give overall savings up to 30 per cent compared with conventional applications.

No Size Limitations—Fiberglas Aerowrap can be applied with equal success to any size pipe. Chart of lengths required to insulate standard pipe sizes available on request.

No Inventory Problem—Aerowrap permits insulation of the entire pipe system—pipes, flanges, valves, and fittings—with a single product. One thickness suffices for the entire application. Aerowrap can be cut to precise lengths and wrapped to any desired thickness. It saves storage space, too.

Limitations

Aerowrap is designed for use on pipes operating at temperatures from subzero to 600°F.



Fiberglas Aerowrap comes in 100 foot rolls that are easy to handle and store. Its form and flexibility make Aerowrap universally useful for every pipe size and for every feature of the pipe system.

Coverings

A variety of finishing materials may be used for covering Fiberglas Aerowrap to meet specific pipe insulation needs. Typical finishes recommended include:

1. Black 55-lb. roofing felt attached with bands or wires.
2. White, asbestos-finished felt attached with bands.
3. Corrugated aluminum sheet (5 mil thick) attached with bands or stapled.
4. Sheet metal jackets banded or secured with screws.

The preceding finishes are suitable for indoor or outdoor applications. Cold lines should be further protected with asphalt mastic seals at joints. Lines operating below 32°F. should be sealed with a special inner jacket of vapor barrier paper.

RECOMMENDED THICKNESSES

Temperature Range °F.	Insulation Thickness—inches				
	Pipe Sizes—inches				
	Up to 1½	2-3½	4-6	7-10	12 and Up
-120 to -61	3½	4	4½	5	5½
-60 to -31	3	3½	3½	3½	4
-30 to -1	2½	2½	3	3	3½
0 to 34	1½	2	2½	2½	2½
35 to 50	1½	1½	1½	1½	1½
51 to 267	1	1	1	1½	1½
268 to 338	1	1	1	1½	1½
339 to 388	1	1	1½	2	2
389 to 500	1½	1½	2	2½	2½
501 to 600	1½	2	2½	3	3

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Recommended Applications

Heated Pipes

1. Cut Aerowrap to the length required for the pipe size and thickness desired.
2. Wrap insulation firmly around the pipe, butting each piece tightly against the next.
3. Fasten the Aerowrap temporarily in place with flare door staples, adhesive, or spirally wrapped industrial twine.
4. One piece of insulation may be wrapped to the desired thickness. Each layer as applied provides 1½ inch of insulation.
5. Recommended coverings may be applied directly over the insulation by conventional methods. Or wrap insulation first with rosin-sized paper, then cover with canvas.

Outdoor Pipes

1. Apply insulation as above.
2. Finish can be the recommended coverings with joints sealed against the weather with breathing-type asphalt mastic.

Cooled Pipes

1. Apply Aerowrap as for heated pipes.
2. Seal every 1½ to 2 inch layer of Aerowrap with a vapor-barrier jacket.
3. Finish with recommended coverings sealed at joints with non-breathing-type asphalt mastic.

Valves and Fittings

1. Finish valves and fittings before jacket is applied over adjoining insulation.
2. Cut Aerowrap into strips or tailored forms. Wrap strips until insulation is built up to desired thickness.
3. Fasten insulation with a spiral wrap of open mesh glass fabric or tape.
4. Finish with asphalt mastic compound to a dry thickness of 1/16 inch, feathering off under adjoining jacket. Apply jacket to adjoining insulation.
5. After mastic has dried, paint with white traffic paint or asphalt base aluminum paint to match jacket.

Suggested Specification

Insulating Material

Heated or cooled piping, nested piping, steam traced lines, valves and fittings, noted on the drawings or listed in the schedules shall be insulated with Fiberglas Aerowrap, as manufactured by Owens-Corning Fiberglas Corporation. Material shall be applied (in the thickness shown on drawings or list) (to a ... thickness).

Application Methods

Fiberglas Aerowrap shall be applied in sections cut long enough to go around the perimeter of the pipes a sufficient number of times to provide the thickness of coverage required, and to allow a 1 to 3 inch overlap of the insulation.

Insulation shall be wrapped firmly around the pipes to a minimum installed density of 1½ lb. per cubic foot. Each piece shall butt tightly against the next and be held in place temporarily by staples, a rubber base adhesive, or a spiral wrap of industrial twine on spacing not to exceed 9 inches.

Valves and fittings shall be wrapped with Aerowrap to a thickness equal to that on the adjoining line, overwrapped with one layer of tape or open mesh glass fabric, and finished with a heavy coat of asphalt mastic.

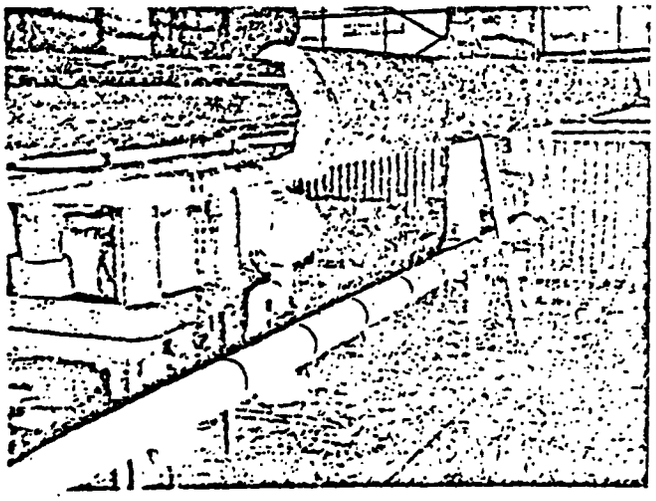
Insulation on cold lines shall be covered with a sealed vapor barrier jacket over every 1½ to 2 inches of thickness.

Surface Finish

Surface finish shall be black 55-lb. roofing felt attached with bands or wires; white, asbestos-finished felt attached with bands; corrugated aluminum sheet, 5 mil thick, attached with bands or stapled; or a sheet metal jacket banded in place or secured with sheet metal screws.



Aerowrap Pipe Insulation used on outdoor lines. A roofing felt jacket protects the insulation against weather.



Aerowrap is ideal for the insulation of gang and steam traced lines. The flexible blanket is wrapped around the entire assembly.

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OWENS-CORNING

FIBERGLAS PF PIPE INSULATION

Description

Fiberglas PF pipe Insulation is made of fine-fibered 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.

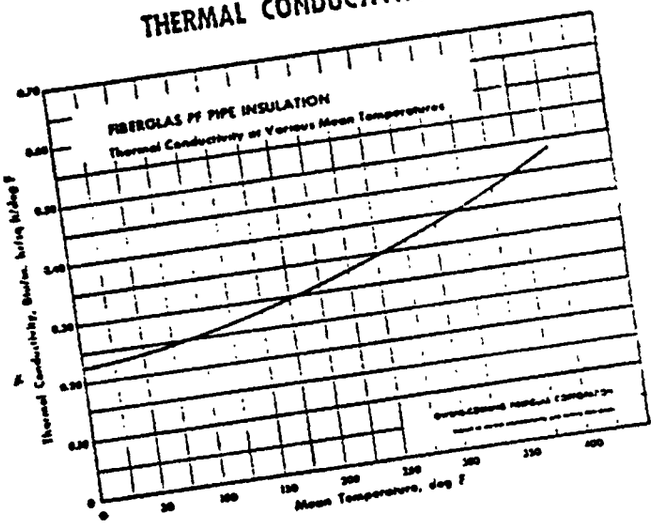


The standardization of Fiberglas PF Pipe Insulation sizes, to conform to simplified dimensions, makes possible reductions up to 40 per cent in inventory lists and storage space requirements.

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.

THERMAL CONDUCTIVITY



Sizes

Fiberglas PF Pipe Insulation is available for iron pipe sizes from ½ inch through 33 inches and for copper tubing sizes from ⅜ 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 coupiings 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.

RECOMMENDED THICKNESSES

Steam Pressure or Condition	Operating Temp. °F.	Insulation Thickness—inches To give insulation surface temperatures below 120°F.* Pipe Sizes—inches				
		Up to 1	1¼-3	4-8	9-12	14 and Up
Hot Water	212	½	½	½	1	1
0 to 25 lb	213-267	½	1	1	1	1
25 to 100 lb	268-338	1	1	1	1½	1½
100 to 200 lb	339-388	1	1	1½	2	2
Low Super Heat	389-450	1½	1½	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.

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Standard Sizes, Thicknesses and Forms

PIPE SIZE	NOMINAL THICKNESS OF INSULATION																FORMS
	½		1		1½		2		2½		3		3½		4		
Nominal	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.	
⅛"	.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	
¼"	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	
1¼"	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	
1½"	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	
2½"	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	
3½	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	
4½"	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	Sectional
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	...		...	...	1.56	12.75	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	Tri-Segmental
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	...	...	Quad-Segmental
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	...	...	...	...	...	...	

½" thicknesses produce outside diameters which do not conform to simplified dimensional standards so that nesting over this thickness is not always possible.

Single Layer* | Multiple Layer**

*½" thickness may be made up of multiple layers on pipe lines up to 4".
**2½" thickness is single layer only on pipes over 6".

Copper Tubing*

Tubing Size	Actual O.D.	Nominal ½ Actual	Nominal ½ O.D.	Nominal 1 Actual	Nominal 1 O.D.	Nominal 1½ Actual	Nominal 1½ O.D.	Tubing Size	Actual O.D.	Nominal ½ Actual	Nominal ½ O.D.	Nominal 1 Actual	Nominal 1 O.D.	Nominal 1½ Actual	Nominal 1½ O.D.
⅜"	.50	.50	1.50	1.19	2.38	1.50	3.50	2"	2.12	.50	3.12	1.19	4.50	1.72	5.56
½"	.63	.50	1.62	1.12	2.38	1.76	4.00	2½"	2.62	.50	3.62	.94	4.50	1.47	5.56
⅝"	.75	.50	1.75	1.06	2.88	1.62	4.00	3"	3.12	.50	4.12	1.28	5.56	1.75	6.62
¾"	.88	.50	1.88	1.00	2.88	1.56	4.00	3½"	3.62	.50	4.62	.97	5.56	1.50	6.62
1"	1.13	.50	2.12	.91	2.38	1.48	4.00	4"	4.12	...	...	1.25	6.62	1.75	7.62
1¼"	1.37	.50	2.37	1.06	3.50	1.56	4.50	5"	5.12	...	...	1.25	7.62	1.75	8.62
1½"	1.63	.50	2.62	.94	3.50	1.68	4.50	6"	6.12		...	1.25	8.62	1.75	9.62

*O.D. of copper tubing insulation conforms to iron pipe sizes except of ¼" thick insulation.

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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

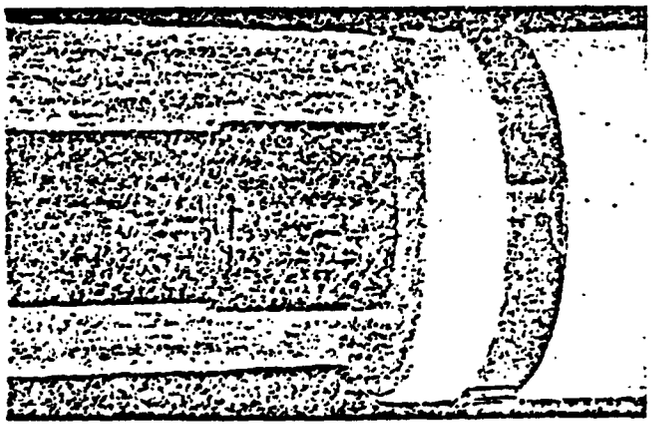
Indoor piping through 12 inches in diameter not subject to abrasion or mechanical abuse requires no finish in addition to the factory-furnished canvas and bands. Piping over 12 inches in diameter shall be finished with canvas pasted in place.

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 ¼-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.

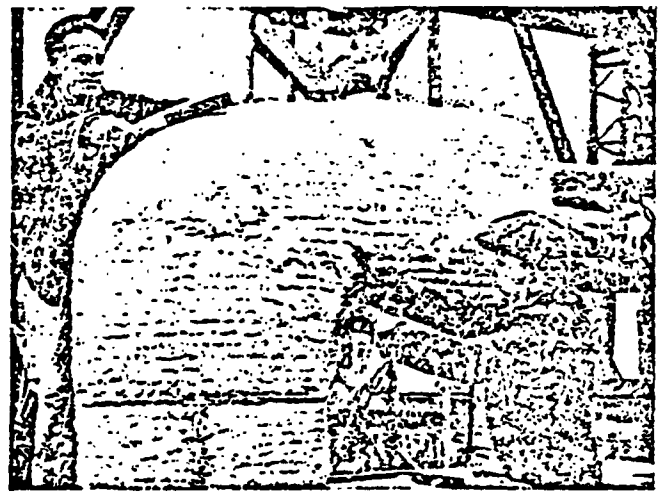
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FIBERGLAS BLANKET TYPE PIPE INSULATION

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 ¾ 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.



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

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.

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 ¼-inch layers of Fiberglas O-C Mastic reinforced with a tight wrapping of an open mesh glass fabric between the layers of mastic.

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.

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

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QWENS-CORNING

FIBERGLAS

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.

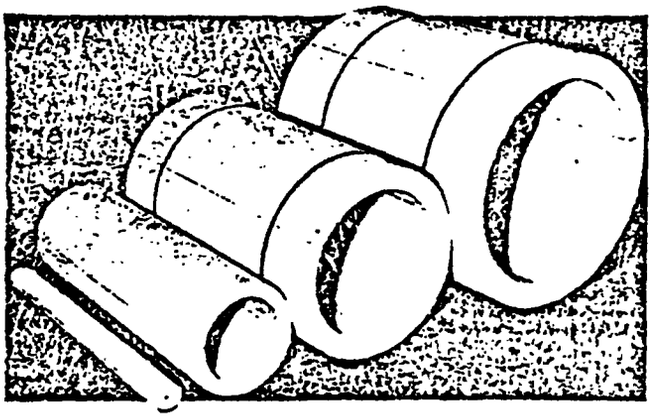
Resistance to Moisture—Water does not break down the structure of Kaylo. Even saturated, it retains an appreciable percentage of its strength. After being soaked for long periods of time and then dried, it returns to its original thermal efficiency and strength, without apparent shrinking or warping.

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.

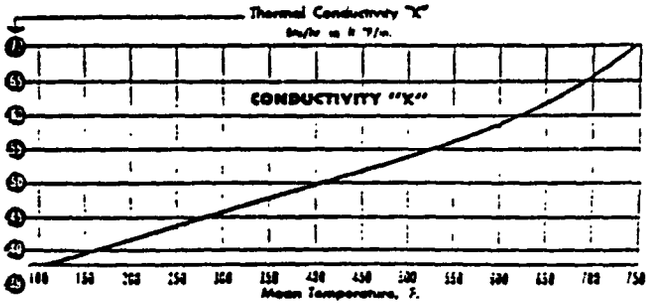


The segmented construction of Kaylo Pipe Insulation means easy installation. Simplified dimensions assure snug and accurate nesting.

Limitations

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

THERMAL CONDUCTIVITY



RECOMMENDED THICKNESSES inches

Nominal Pipe Size	Resulting in Maximum Surface Temperature of 130°F. at 80°F. Ambient*									
	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	2½	3	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	3	4	4½
3	1	1	1½	2	2½	3	3	3½	4	4½
4	1	1½	1½	2	2½	3	3½	3½	4	4½
5	1	1½	2	2	2½	3	3½	4	4½	5
6	1½	1½	2	2½	2½	3	3½	4	4½	5
10	1½	1½	2	2½	3	3	3½	4	4½	5
12	1½	1½	2	2½	3	3	3½	4	4½	5
14	1½	1½	2	2½	3	3	3½	4	5	5½
16 and Up	1¼	1½	2	2¼	3	4	4¼	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.

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Standard Sizes, Thicknesses and Forms

Nominal Pipe Size	O.D.	1 Actual	1 O.D.	1½ Actual	1½ O.D.	2 Actual	2 O.D.	2½ Actual	2½ O.D.	3 Actual	3 O.D.	3½ Actual	3½ O.D.	4 Actual	4 O.D.	4½ Actual	4½ O.D.	5 Actual	5 O.D.
½"	.84	1.00	2.88	1.56	4.00	2.06	5.00	2.35	5.56	2.88	6.63								
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								
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			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														

Sizes 7 to 72

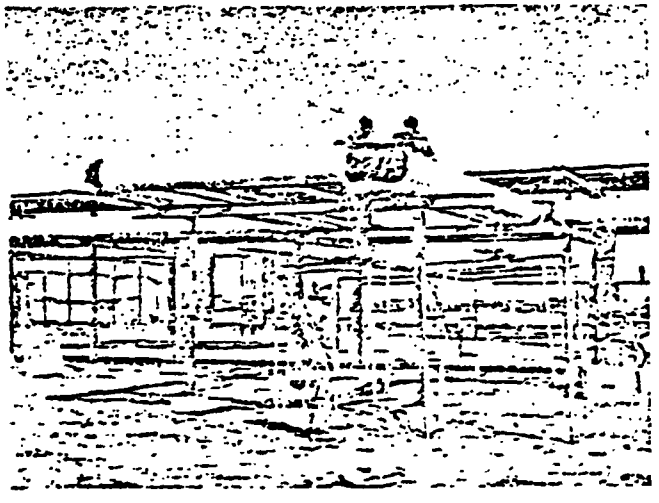
Sectional

Tri-Segmental

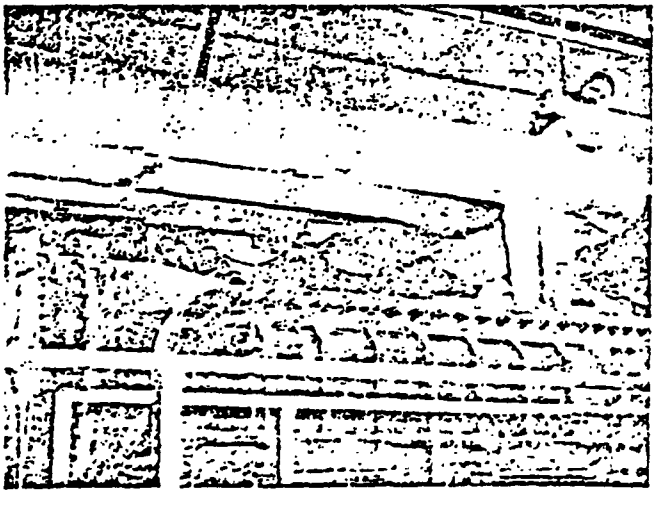
Single Layer

Multiple Layer

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



Kaylo 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. Kaylo installation costs are low.

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OWENS-CORNING

FIBERGLAS

FIBERGLAS AE BOARD

Description

Fiberglas AE-Boards are rigid board-type insulations of fibrous glass sheathed in cold storage grade asphalt. They are expressly made for low temperature service with its conditions of moisture and temperature variations. This product is designed for use on low temperature spaces and for equipment operating below 100°F.

Properties

AE Board, like other Fiberglas products, has a low coefficient of thermal conductivity, shown in the table at right. This capacity to control heat permits effective maintenance of low temperatures with minimum insulation thicknesses.

The asphalt sheathing permits easier control of condensation when properly applied. This material will not rot, swell or warp . . . is light and easy to handle.

Sizes

Standard size is 12 inches by 36 inches in thicknesses from 1 inch through 4 inches.

Recommended Usage

AE Boards are recommended for insulating rectangular tanks and cylindrical or spheroidal tanks large enough to require little cutting of insulation.

Application

Boards are applied in hot asphalt, bound with metal bands and suitably finished to meet anticipated conditions.

Cold Storage Rooms

Fiberglas AE Board is ideal for insulating low temperature spaces by traditional hot-dip methods. Ask for Fiberglas Design Data, IN6.A3 for additional details.

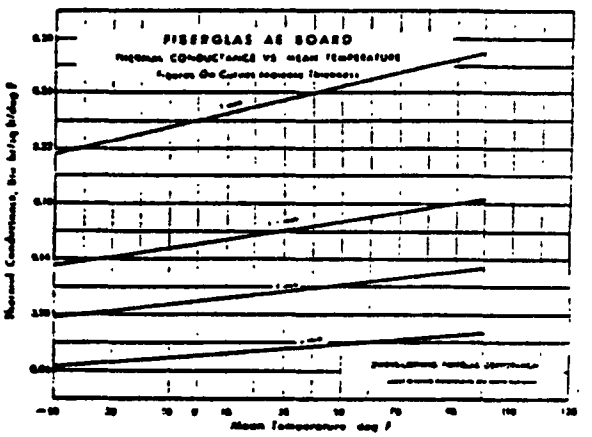
Limitations

Thermal values given are averages subject to normal manufacturing and testing tolerances. In handling boards, care should be taken not to rupture asphalt sheath.



AE-Board applied in hot asphalt to cold storage room walls. Finish will be plaster over wire mesh nailed to insulation.

THERMAL CONDUCTIVITY



FIBERGLAS METAL MESH BLANKETS

Description

Fiberglas Metal Mesh Blankets are made of fibrous glass wool, faced on one or both sides with wire mesh or metal lath. Blankets are used to insulate boilers, vessels, ovens and other equipment, especially those with surface irregularities. They are designed for use at temperatures from sub-zero to 1000°F.

Types and Sizes

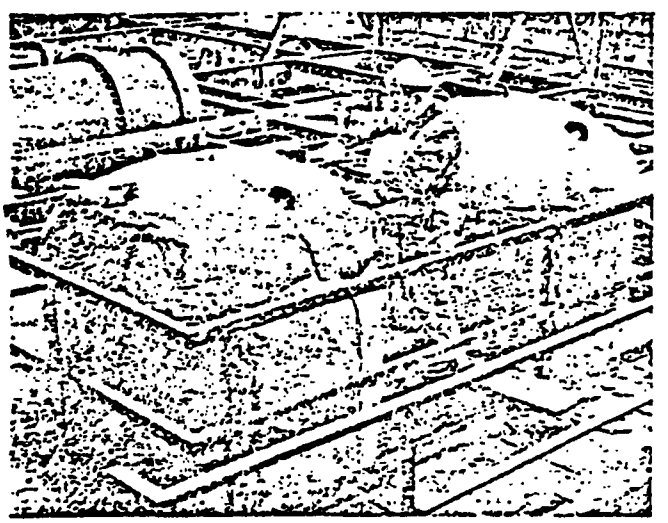
Two types of metal mesh blankets are available. Type 900, with a core of unbonded Fiberglas wool, is suited for temperatures up to 1000°F. Type 600, made of Fiberglas PF Insulation, is limited to temperatures below 450°F.

These blankets are made in two standard sizes: 2x3 feet and 2x4 feet. Special sizes made to order.

Advantages

Blankets are light and easy to apply and their flexibility permits application over irregular surfaces.

The mesh or lath facings are easy to handle and provide an excellent base for cement or mastic finishes.



Large heated or cooled equipment, especially that with surface irregularities, can be easily insulated with metal mesh blankets.

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FIBERGLAS NO. 600 BLOCK INSULATION

Description

Fiberglas Block Insulation is Fiberglas PF Insulation cut to lagging sizes and sanded on one side to form insulation blocks. High density gives strength and rigidity. Fiberglas Block Insulation is designed for heated equipment with regular surfaces, in the temperature range up to 450°F.

Properties

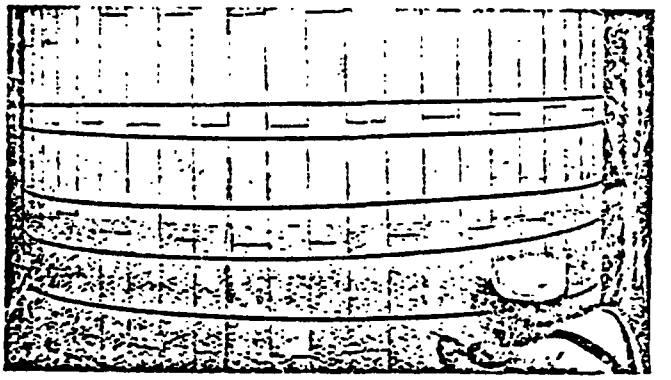
Fiberglas Block Insulation combines all the desirable properties of other Fiberglas Insulations. It is incombustible, resists moisture, and possesses high insulating value (average "k" of .25 at 75°F. mean temperature). Its flexural strength is approximately 60 lb. per square inch.

Sizes

The blocks are available in widths of 6 or 12 inches with a length of 36 inches, in thicknesses of ¾, 1, 1¼, 1½ and 2 inches.

Advantages

Handling qualities of the blocks are excellent. They are easy to cut and fit. They mate snugly to form a continuous wall of effective and lasting insulation. Application is easy and simple.



Fiberglas No. 600 Block Insulation is especially suited for use on regular surfaces, such as this large tank.

RECOMMENDED THICKNESSES

Insulation Thickness—inches	
Design surface temperature less than 120° F. at 80° F. ambient	
Surface Temperature °F.	Thickness*
100—200	¾
201—300	1
301—400	1½
401—450	2

*For outdoor service increase thickness by at least ¼". Many services permit higher or lower surface temperatures and efficiencies. Recommended thicknesses for surface temperatures of 110°, 130° and 140° available on request.

FIBERGLAS TW-F INSULATING WOOL

Description

Fiberglas TW-F Insulating Wool is a fibrous glass wool made in four forms—rolls, batts, bulk, and shredded. It is sold in nominal density of 3 lb. per cubic foot, and thickness is measured on that basis. It is designed for use on equipment operating at temperatures up to 1000°F. It is excellent for thermal insulation or sound absorption.

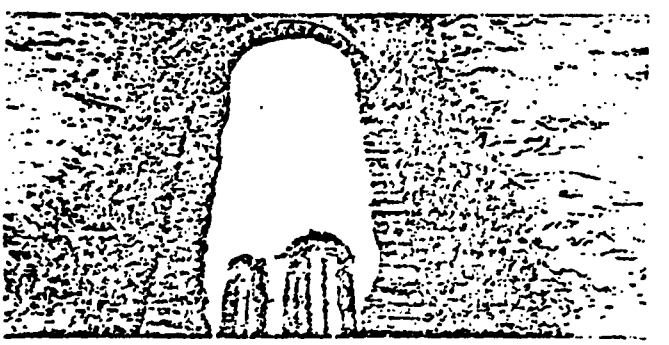
Properties

TW-F Insulating Wool is nonabsorbent, nonhydroscopic, and incombustible. A light coating of oil is applied during manufacture. The first application of heat causes slight smoke and odor, but repeated heating thereafter produces no smoking. For special uses, the oil can be removed with benzine or carbon tetrachloride.

Forms and Sizes

Rolls and Batts are made in thicknesses from ¼ inch to 3¼ inches, in ¼ inch increments. Widths range from 6 inches through 48 inches, and lengths from 54 inches through 120 inches. Compressed rolls are available in lengths from 190 inches to 520 inches, depending upon thickness. Compressed rolls may be ordered in continuous lengths (rolls) or in short pieces (batts) packaged end to end between inter-leaving paper.

Bulk wool is made in irregularly sized pieces for use in stuffing or packing into odd-shaped spaces where other fabricated and semi-fabricated forms of Fiberglas insulations would be hard to fit.



Fiberglas TW-F Insulating Wool is versatile. Its flexibility and resilience simplify the insulation of hard-to-reach surfaces.

Shredded Wool is Bulk Wool cut into short pieces. It is used to insulate vehicles and heated equipment, or for other applications involving packing of spaces.

Recommended Usage

Batts and rolls are suited to the insulation of industrial and bakery ovens and other prefabricated or pre-assembled types of equipment in which the insulation is fully enclosed.

Bulk and shredded forms are used as loose fill in expansion joints and for packing into small or irregular spaces.

This material can be used as a sound absorbing medium behind perforated building finish.

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FIBERGLAS NO. 600 BLOCK INSULATION

Description

Fiberglas Block Insulation is Fiberglas PF Insulation cut to lagging sizes and sanded on one side to form insulation blocks. High density gives strength and rigidity. Fiberglas Block Insulation is designed for heated equipment with regular surfaces, in the temperature range up to 450°F.

Properties

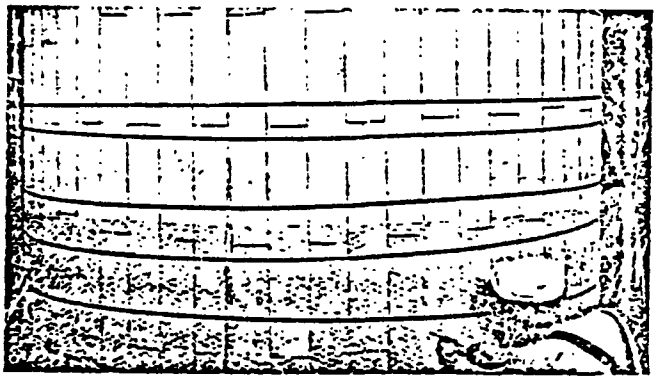
Fiberglas Block Insulation combines all the desirable properties of other Fiberglas Insulations. It is incombustible, resists moisture, and possesses high insulating value (average "k" of .25 at 75°F. mean temperature). Its flexural strength is approximately 60 lb. per square inch.

Sizes

The blocks are available in widths of 6 or 12 inches with a length of 36 inches, in thicknesses of ¾, 1, 1¼, 1½ and 2 inches.

Advantages

Handling qualities of the blocks are excellent. They are easy to cut and fit. They mate snugly to form a continuous wall of effective and lasting insulation. Application is easy and simple.



Fiberglas No. 600 Block Insulation is especially suited for use on regular surfaces, such as this large tank.

RECOMMENDED THICKNESSES

Insulation Thickness—inches	
Design surface temperature less than 120° F. at 80° F. ambient	
Surface Temperature °F.	Thickness*
100—200	¾
201—300	1
301—400	1½
401—450	2

*For outdoor service increase thickness by at least ¼". Many services permit higher or lower surface temperatures and efficiencies. Recommended thicknesses for surface temperatures of 110°, 130° and 140° available on request.

FIBERGLAS TW-F INSULATING WOOL

Description

Fiberglas TW-F Insulating Wool is a fibrous glass wool made in four forms—rolls, batts, bulk, and shredded. It is sold in nominal density of 3 lb. per cubic foot, and thickness is measured on that basis. It is designed for use on equipment operating at temperatures up to 1000°F. It is excellent for thermal insulation or sound absorption.

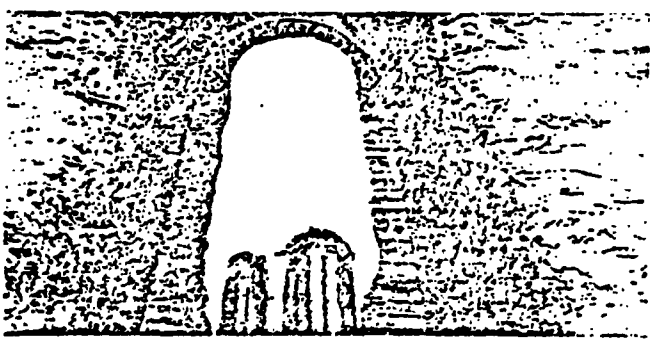
Properties

TW-F Insulating Wool is nonabsorbent, nonhydroscopic, and incombustible. A light coating of oil is applied during manufacture. The first application of heat causes slight smoke and odor, but repeated heating thereafter produces no smoking. For special uses, the oil can be removed with benzine or carbon tetrachloride.

Forms and Sizes

Rolls and Batts are made in thicknesses from ¾ inch to 3¼ inches, in ¼ inch increments. Widths range from 6 inches through 48 inches, and lengths from 54 inches through 120 inches. Compressed rolls are available in lengths from 190 inches to 520 inches, depending upon thickness. Compressed rolls may be ordered in continuous lengths (rolls) or in short pieces (batts) packaged end to end between inter-leaving paper.

Bulk wool is made in irregularly sized pieces for use in stuffing or packing into odd-shaped spaces where other fabricated and semi-fabricated forms of Fiberglas insulations would be hard to fit.



Fiberglas TW-F Insulating Wool is versatile. Its flexibility and resilience simplify the insulation of hard-to-reach surfaces.

Shredded Wool is Bulk Wool cut into short pieces. It is used to . sulate vehicles and heated equipment, or for other applications involving packing of spaces.

Recommended Usage

Batts and rolls are suited to the insulation of industrial and bakery ovens and other prefabricated or pre-assembled types of equipment in which the insulation is fully enclosed.

Bulk and shredded forms are used as loose fill in expansion joints and for packing into small or irregular spaces.

This material can be used as a sound absorbing medium behind perforated building finish

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FIBERGLAS PF INSULATION

Description

Fiberglas PF (Preformed) Insulation is a highly versatile insulating material. Made of fibrous glass pre-formed to the required thickness and density with a durable, thermo-setting resin. Available in seven standard densities from 2½ to 10½ lb. per cubic foot. The lightest density is flexible and easily compressed . . . the heaviest is board-like and rigid. Designed for use on equipment operating at temperatures up to 450°F.

Properties

Versatility—Fiberglas PF Insulation is available in a wide choice of densities and thicknesses. This wide choice permits engineers to select a product which exactly meets requirements as to form, thickness, density, thermal efficiency and cost.

Thermal Conductivity—Countless tiny pockets of still air are trapped by this product's maze of fibers of glass. Higher efficiency results from this trapped air and means that adequate control of heat can be attained with minimum insulation thickness. The conductivity curves at right exhibit this extra efficiency.

Sound Absorption—PF Insulation has excellent noise reduction characteristics and may be used for industrial acoustical applications.

Advantages

Fiberglas PF Insulation is light; easy to fabricate, handle and apply. It will not rot, resists moisture and will not support combustion. It will not corrode metal surfaces.

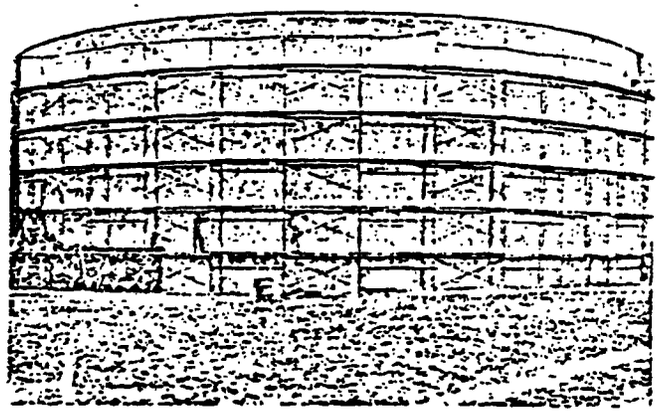
Types and Sizes

PF Insulation, in seven densities, is sized in 24x48 inch boards as standard. Standard thicknesses available in each density are shown in the table below. Many additional sizes and thicknesses are available on a made-to-order basis.

Application

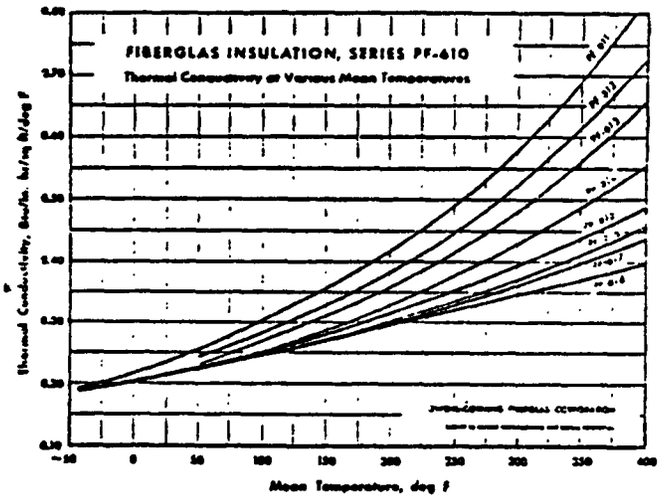
The insulation, used on industrial equipment, is held in place by metal bands over the insulation or by metal insulation pins.

Cooled equipment requires a vapor barrier jacket to halt vapor before it can reach the cold surface of equipment and condense.



Fiberglas PF Insulation, furnished in rectangular panels, is ideal for use on smooth, regular surfaces like this big tank.

THERMAL CONDUCTIVITY



AVAILABLE TYPES AND SIZES—inches

Standard Size 24"x48"						
PF-612 2½ lb per Cu. Ft.	PF-613 3¼ lb per Cu. Ft.	PF-614 4¼ lb per Cu. Ft.	PF-615 6 lb per Cu. Ft.	PF-616 7¾ lb per Cu. Ft.	PF-617 9 lb per Cu. Ft.	PF-618 10½ lb per Cu. Ft.
...	...	...	...	¾	¾	¾
1	1	1	1	1	1	1
1½	1½	1½	1½	1½	1½	1½
2	2	2	2	2	2	2
3	3	3	3	...	...	...
4	4	...	...	...	...	...
5	..	..	..	.	.	..

RECOMMENDED THICKNESSES

Cooled Equipment		Heated Equipment	
Temperature Range °F.	Thickness—inches	Temperature Range °F.	Thickness—inches
Above 50	1	Up to 200	¾
50 to 35	2	201 to 300	1
34 to 0	3	301 to 400	1½
−1 to −30	4	401 to 500	2
−31 to −60	5	. .	. . .
−61 to −100	6	.	. . .
Thicknesses designed to prevent condensation on outer surface under ambient conditions of 90° F. and 90% Relative Humidity.		Thicknesses designed to give a surface temperature of less than 120°F. at 80°F. ambient.	

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KAYLO HEAT INSULATING BLOCK

Description

Kaylo Heat Insulating Block, like Kaylo Pipe Insulation, is made of a compound of lime and silica, and contains no added binder. It is designed for insulating smooth surfaces on equipment operating at temperatures up to 1200°F.

Properties

Kaylo Heat Insulating Block has a low coefficient of thermal conductivity for products in its temperature range. Its efficiency is clearly shown by the graph below. It resists moisture exceptionally well and is dimensionally stable. Kaylo insulation is incombustible and has no corrosive effect in contact with steel or aluminum.

Sizes

Kaylo Heat Insulating Block is made in standard 36-inch lengths, in widths of 6, 12 and 18 inches, and in thicknesses from 1 through 3 inches in ½-inch increments.

Advantages

Efficiency—Kaylo's high insulation value depends upon its extremely small pore structure. The countless microscopic air cells present a material internal surface of approximately 100 acres per cubic foot of insulation.

Resistance to Moisture—Water does not break down Kaylo Heat Insulating Block. Even when saturated, it retains an appreciable percentage of its strength. After prolonged soaking, it dries and returns to its original thermal efficiency without apparent shrinkage or warping.

Incombustible—Kaylo will not support combustion.

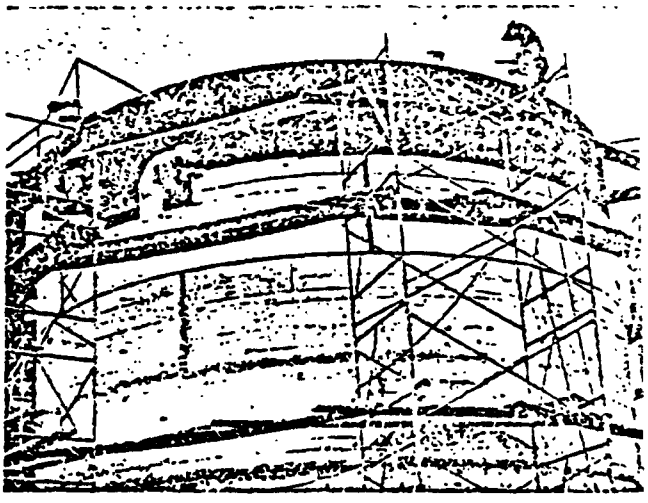
Long Service—Kaylo remains strong and effective over the years. It shows little shrinkage after continuous exposure to temperatures up to 1200°F.

Application

Kaylo Heat Insulation is suited to a wide variety of applications. Boilers, kilns, breechings, furnaces, industrial ovens, and other industrial equipment at temperatures up to 1200°F. can be easily insulated with this white material. Single layer application is possible up to 700°F. and double layers up to 1200°F.

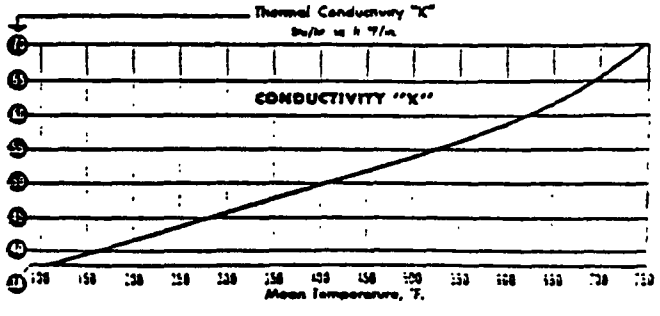
Block insulation can be cut, scored or sawed with ordinary tools of the trade. The material is non-toxic and does not irritate the skin.

Methods of application include tie wires, studs, speed clips and other methods of applying insulating block.



Kaylo Heat Insulating Block can be used indoors or outdoors. It is light, strong, durable, and easy to handle and apply.

THERMAL CONDUCTIVITY



RECOMMENDED THICKNESSES

Operating Temperature Difference °F.	Thickness—inches*
100-200	1
201-300	1
301-400	1½
401-500	2
501-600	2½
601-700	3½
701-800	4
801-900	4½
901-1000	5
1001-1100	7
1101-1200	8

*For surface temperatures not to exceed 130°F. at 80°F. ambient. Based on vertical surfaces. Thicknesses to produce surface temperatures of 110°, 120° and 140° available on request.

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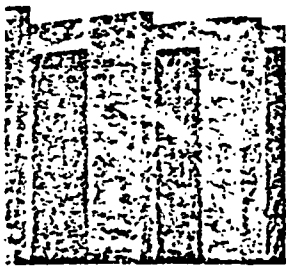
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OWENS-CORNING

FIBERGLAS

FIBERGLAS PF DUCT INSULATION

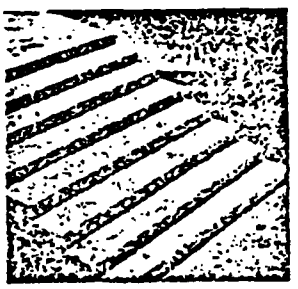


Fiberglas PF Insulation is made in semi-rigid panels of fibrous glass wool for use as a duct insulation. Because it can be so easily cut to size and applied, PF Insulation is a popular exterior insulation for ducts, either exposed or concealed. Though this insulation ranks high in efficiency, it is one of the lowest-priced duct insulations of its type.

The available variety of densities and thicknesses enable PF Insulation to meet the special requirements of any heated duct installation in the temperature range up to 450°F. There are four densities from 2½ lb. to 6 lb. per cubic foot. Standard panels are 24x48 inches. Other sizes are made to order. Standard thicknesses for ducts are ½ inch and 1 inch.

Application is fast and simple. PF Duct Insulation is easy to cut, shape, and trim. Total installed cost is usually below that of other insulations.

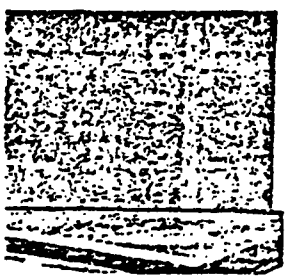
FIBERGLAS COATED DUCT INSULATION



Fiberglas Coated Duct Insulation is a semi-rigid board material, specially processed to give it maximum utility. It combines all the desirable qualities of PF Insulation with improved surface characteristics which permit either exterior or interior application. It is lightly coated on both sides with a neoprene compound to prevent fiber entrainment when the material is used as a duct liner and to facilitate handling and painting.

Fiberglas Coated Duct Insulation has exceptional thermal efficiency. It is light weight and fire safe (listed by Underwriters' Laboratories, Inc.). It offers moisture resistance, physical stability, and excellent workability, plus superior sound absorption characteristics. It also possesses high resistance to air erosion. Tested at air velocities of 6,000 ft. per minute, it showed no surface deterioration. For use as a duct liner on warm or air conditioning ducts.

FIBERGLAS VAPOR-SEAL DUCT INSULATION



Fiberglas Vapor-Seal Duct Insulation is designed especially for use on the outside of air conditioning ducts. It is an efficient board-like material of fibrous glass, with a factory-applied vapor barrier of asphalt and kraft paper. In warm, humid areas, where condensation on cool air ducts is often a serious problem, this unusual product provides insulation and a vapor barrier in a single product.

Vapor-Seal Duct Insulation is light in weight and easy to handle. Thermal efficiency is high. The material is easy to cut, shape, and apply. Joints must be carefully sealed to prevent condensation.

Vapor-Seal Duct Insulation is offered in standard 24x48 inch panels, in thicknesses of ¾, 1, 1½, and 2 inches. It should not be used where duct temperatures exceed 150°F, since higher temperatures will damage the facing.

FIBERGLAS FLEXIBLE DUCT INSULATION

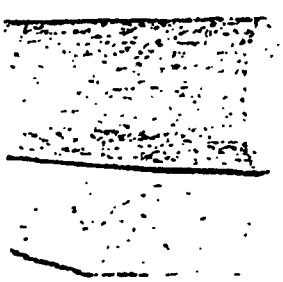


Fiberglas Flexible Duct Insulation is a versatile and efficient insulating blanket of fine glass fibers. Its unique combination of flexibility, light weight, low thermal conductivity, and moisture resistance, make it desirable for exposed or concealed ducts of any cross section. It is equally suitable for cold (with vapor barrier facing) or warm air ducts. Its ease of application, even in a limited space, is a money-saving factor.

Flexible Duct Insulation is available in standard ½, 1, 1½ and 2 inch thicknesses, 24, 36, 48, or 72 inches wide, in compressed rolls 100 feet long. Faced material comes in 48 inch width only.

A variety of facings may be factory applied with or without a 2 inch sealing flange on one edge. These include kraft paper, duplex-laminated kraft paper, aluminum foil, and reinforced foil-faced flame resistant kraft paper.

FIBERGLAS FLEXIBLE DUCT LINER



This special form of Fiberglas flexible insulation, with a light coating of compounded neoprene, is used as a barrier to heat flow and a sound-absorbing insulation on duct interiors.

The sheet metal duct acts as a vapor barrier when Flexible Duct Liner is used on inner surfaces of air conditioning ducts. The insulation keeps the duct surface at approximately room temperature and tends to prevent condensation on ducts carrying cool air through areas of high humidity. Flexible duct liner is thus suitable for air conditioning and warm air ducts.

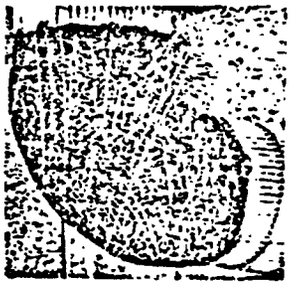
Because it is so flexible, this duct liner can be installed by adhering the insulation to the metal sheets before they are bent to form the duct. Available in ½ and 1 inch thicknesses in 48-inch width. 36-inch width only available in Western United States.

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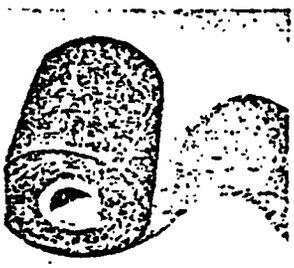
FIBERGLAS O-C MASTIC FINISH



O-C Mastic Finish is a waterproof, breathing-type, asphalt emulsion to which long asbestos fibers have been added. It is used as a protective finish for insulation on pipes, tanks, boilers, ducts, breechings, converters, digesters and other types of equipment.

The mastic is supplied in ready-mixed plastic form of troweling consistency. It should be protected against freezing during storage and application. O-C Mastic is a purchased material, which is shipped in drums direct from the supplier to the customer. Available in 500, 300 and 50-lb. drums.

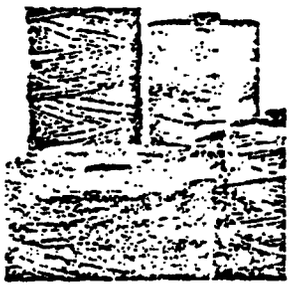
FIBERGLAS MEMBRANE FABRIC



Fiberglas Membrane Fabric is an evenly woven cloth of glass yarns, used in low-temperature rooms, on pipes, ducts and vessels and in roofing work to reinforce mastics and provide a base for finishes.

Open mesh of the cloth permits mastics to key through the cloth and form a cohesive mass, reinforced in both directions with strong fibers of glass and bonded securely to the surface to be protected. The light weight of the cloth—only 1/4 to 1/3 that of other reinforcing materials—permits easy handling and convenient installation.

FIBERGLAS TYING CORD AND TAPE



Fiberglas Industrial Tying Cord, Type EC-9-3-N is a neoprene latex treated glass cord of high tensile strength. Suited to industrial use as a tying member. Diameter is .039 inch. Cord has a high breaking strength rating and is unaffected by high temperatures. Sold on tubes weighing 1 1/2 to 2 1/4 lb. in cartons weighing 55 lb.

Fiberglas tapes are smooth and white . . . are woven of glass fibers. They are used to secure pipe insulations, duct insulations and other industrial applications. Have high strength and resistance to heat.

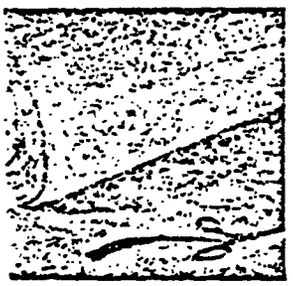
FIBERGLAS VAPOR BARRIER JACKET



Where pipe lines or vessels containing cold liquids or gases are located in warm, humid areas, a vapor barrier is required to prevent moisture from passing through the insulation and condensing on metal surfaces. When a separate vapor barrier must be applied at the job site, Owens-Corning Fiberglas Corporation supplies, separately, the same vapor-barrier jacket used on Fiberglas Dual Temperature Pipe Insulation.

Vapor barrier adhesive to seal joints in the jacket and for other vapor-seal applications. Supplied in 1-gallon cans and 5-gallon pails.

FIBERGLAS FLEXIBLE GENERAL PURPOSE INSULATION



Extraordinarily fine fibers of glass are lightly bonded with a durable, thermo-setting resin to produce Fiberglas Flexible General Purpose Insulation in lightweight, highly resilient, thermally efficient, felt-like insulating blankets.

This material is intended for miscellaneous general industrial applications where a flexible material with high thermal efficiency is desired. The "k" value of this material averages .27 at 75°F. mean temperature.

Available in 100-ft. rolls; 18, 24, 36, 48, or 72 inches wide, in thicknesses of 1/2, 1, 1 1/2 and 2 inches.

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FIBERGLAS

WHERE TO BUY

Look for OWENS-CORNING FIBERGLAS in your telephone book. Fiberglas representatives in the cities listed below will help you solve your industrial insulation problems and furnish lists of applicators qualified to apply Fiberglas Insulations.

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ARIZONA
Phoenix
CALIFORNIA
Los Angeles
Sacramento
San Diego
San Francisco
San Jose
COLORADO
Denver
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GEORGIA
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Peoria
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South Bend
IOWA
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KANSAS
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TEXAS
Dallas
El Paso
Houston
San Antonio
UTAH
Salt Lake City
VIRGINIA
Richmond
WASHINGTON
Seattle
WEST VIRGINIA
Charleston
WISCONSIN
Milwaukee

Dependable Contractors

Owens-Corning Fiberglas Branches will furnish lists of dependable contractors who are qualified to install Fiberglas and Kaylo Insulations efficiently and economically. Consult your nearest Owens-Corning Fiberglas representative for details.

Engineering Service

Owens-Corning Fiberglas Corporation will be glad to assist you in solving your industrial insulation problems. Representatives will help you determine which type of insulation is best suited for your particular application and show you how it can be best used.

For further information on any of the products described in this catalog, consult your nearest Owens-Corning Fiberglas representative, or communicate directly with one of the offices listed below. Detailed information on any Owens-Corning Fiberglas product will be furnished on request.

OWENS-CORNING FIBERGLAS CORPORATION

GENERAL OFFICES AND GENERAL PRODUCTS DIVISION, TOLEDO 1, OHIO
PACIFIC COAST DIVISION, P. O. BOX 89, SANTA CLARA, CALIFORNIA
TEXTILE PRODUCTS DIVISION, 16 E. 56TH STREET, NEW YORK 22, NEW YORK

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