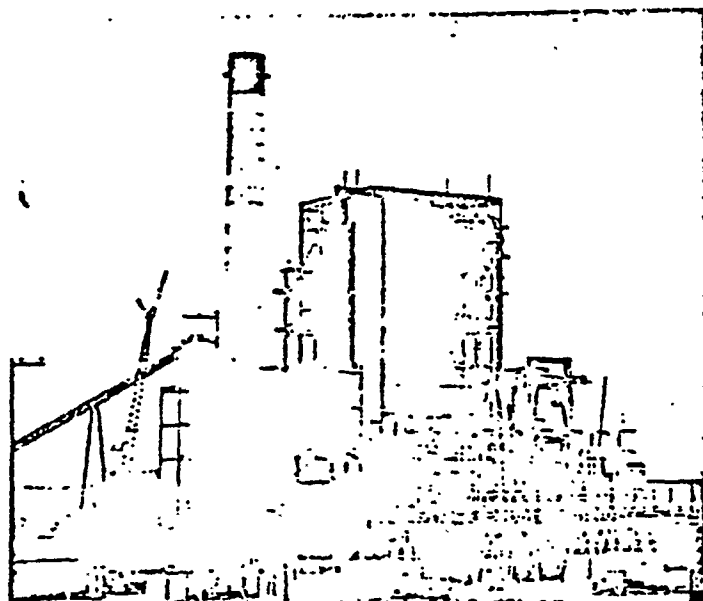


Philip Carey Industrial Insulations



The complete insulation line... from 35° F. to 2000° F.



POWER



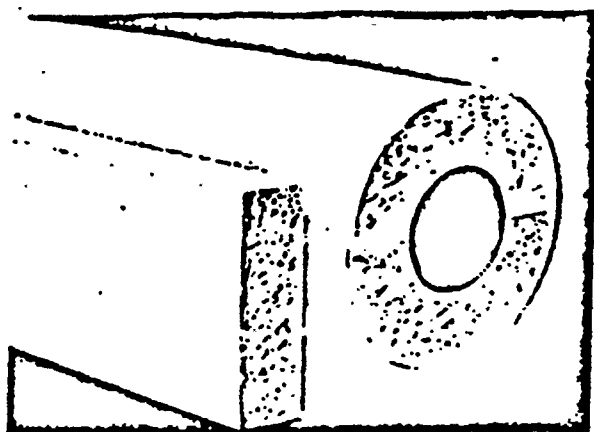
CHEMICAL



REFINING



COMMERCIAL



CAREYTEMP

HIGH TEMPERATURE PIPE AND BLOCK INSULATION FOR TEMPERATURES UP TO 1500°F.

INSULATION SELECTION GUIDE

temperature	uses	product	page
(up to 2000° F.)	For furnaces, ovens, kilns, tanks, breechings, Block form.	Careytemp 2000	6
(up to 1500° F.)	For superheated steam and hot oil lines, oil stills, ovens, boiler breechings. Pipe covering, curved or flat block form, premolded elbows, traced pipe, aluminum jacketing.	Careytemp	2-3
(up to 1200° F.)	For ovens, ducts, flues, tanks, requiring large, flexible sheets.	Mineral Wool Blankets	9
(200° F. to 700° F.)	For furnace walls, hot gas ducts, breechings, vessels to 700° F.	7CF Mineral Wool Insulation	9
(100° F. to 350° F.)	For pipes, boilers, ovens, Pipe covering and blankets.	Thermoglas Pipe and Roll Form Spun Mineral Wool	7 9
(35° F. to 350° F.)	For pipes carrying hot, cold or alternating liquids. Jacket prevents sweating. Pipe covering.	Thermoglas with Vapor Barrier Jacket	7
(35° F. to 200° F.)	For heating and air conditioning piping.	Flexible Tubing	9
Air-Conditioning Ducts and Equipment	Insulation for metal duct work, and air conditioning equipment.	Thermoglas Roll Form F and TX ment	7
	Acoustical and thermal insulation of fine glass fiber.	Thermoglas Board Thermoglas Duct Liner	7 7
Careytemp Recommended Thicknesses			4-5
Recommended Specifications and Application Procedures			8
Insulation Jacketing			12

CEMENT & COATING SELECTION GUIDE

uses	product	page
Pointing up Careytemp Pipe and block.	Careytemp Asbestos Cement and MW-One Cement.	10
Insulating all fittings.	No. 303, MW-50, MW-One Cement	10
Refractory coating and patching.	MW-50 or MW-One For a smooth final coat apply No. 100. Carey Vitricel Cement.	10 10
Finishing over molded insulations.	No. 100 for hard finish. No. 303 Utility Grade. LF20 Long Fiber 7M90 Asbestos Cement.	10
Bonding insulation to metal surface.	Carey Fibrous Adhesive. Careytemp Adhesive	10
Protective coatings	Thermotex "D", Insulation Seal, P.V.A. No. 100, Emulsion Coatings.	11

Careytemp was designed and formulated to include the most important thermal, physical, chemical and moisture resistant properties demanded by industrial users of thermal insulation.

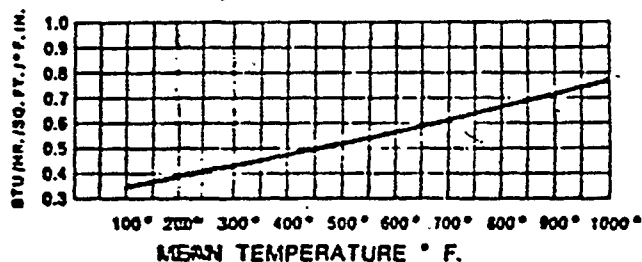
Careytemp is composed of expanded perlite with specially developed binders and is reinforced with inorganic fibers. Expanded perlite insulation is a structure consisting of millions of individual glassed-in vitrified air cells permanently bonded together to resist water penetration.

Careytemp is recommended for the insulation of piping, vessels and equipment operating from ambient to 1500° F. in temperature, either continuous or cyclic operation. It is also recommended for fire protection of piping, equipment, vessel and structural steel. Its moisture resistance is particularly advantageous for these applications which normally operate at ambient temperature.

Careytemp's exceptional strength and light weight reduce application costs. Non-crumbling, precision-molded Careytemp is superior in those properties most responsible for longer-lasting, more efficient insulation—it has practically no linear shrinkage, exceptional water resistance (lowest absorption rate of any high temperature insulation), low thermal conductivity up to 1500° F. and is highly acid-resistant.

PHYSICAL PROPERTIES*

Thermal Conductivity



Careytemp's thermal conductivity is low for a material of such widespread temperature range. This means that it is now possible to obtain highly efficient heat conservation over a wide range of temperatures with a single material — Careytemp.

Temperature Limits:	Maximum	1500° F.
	Continuous	1500° F.
	Cyclic	1500° F.
Density (dry)	10 lbs./cu. ft.	
Compressive Strength	5% deformation 81 psi	

Linear Shrinkage %	
a. 500° F. for 24 hours	.22
b. 1000° F. for 24 hours	.45
c. 1500° F. for 24 hours	1.20

Moisture Absorption by Volume @ 90% Rel. Humidity %	
a. 24 Hours	0.45
b. 1 Week	0.90
c. 4 Weeks	1.30

Water Absorption by Volume %	
a. 2 Hours Immersion	.80
b. 24 Hours Immersion	2.70
c. 72 Hours Immersion	5.00

Acid Resistance After 24 Hour Immersion	
a. 25% Sulfuric Acid	No Effect
b. 25% Hydrochloric	No Effect
c. 25% Aqua Regia	No Effect

Thermal Conductivity	
300° F. Mean	.42
500° F. Mean	.51
1000° F. Mean	.77

Conductivity expressed as BTU/Hr./Sq. Ft./°F./1" Thickness.

*All tests were conducted according to standard test methods.

STANDARD SIZES

Copper Tubing— $\frac{1}{8}$ " O.D. through $3\frac{1}{2}$ " O.D., half sections
Iron Pipe— $\frac{1}{4}$ " through 24" IPS, half sections
Thickness—1" through 3", single layer
Segmental—12 $\frac{1}{4}$ " wide curved sections, through 60" O.D.

Block Insulation

Standard Widths—6", 12" and 24"
Standard Lengths—18" and 36"
Standard Thickness—1" through 6" in $\frac{1}{2}$ " increments

GOVERNMENT SPECIFICATION COMPLIANCE

Pipe Covering MIL-I-2781D
Grade I - Class b
Grade II - Class d
Grade III - Class e, Type I & II
Block MIL-I-2819D
Class I, II & III

A.S.T.M. SPECIFICATION C-610-67

APPROXIMATE WEIGHT Per 3 Foot Section

Insulation Thickness in Inches	Nominal Pipe Size in Inches										
	$\frac{1}{2}$	$\frac{3}{4}$	1	1 $\frac{1}{2}$	2	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4	6	8
1"	12	12	17	15	22	22	27	39	45	33	44
1 $\frac{1}{2}$ "	23	23	30	36	36	41	54	51	64	61	70
2"	40	39	44	46	65	67	82	75	95	49	120
2 $\frac{1}{2}$ "	71	70	69	63	85	86	101	101	125	111	134
3"	94	93	92	91	115	115	140	131	162	155	174

Insulation Thickness in Inches	Nominal Pipe Size in Inches										
	6	7	8	9	10	11	12	14	15	16	18
1"	69										
1 $\frac{1}{2}$ "	79	91	102	112	124	134	144	147	154	164	183
2"	114	134	144	154	174	184	194	204	214	224	254
2 $\frac{1}{2}$ "	153	169	179	189	209	219	229	239	249	259	289
3"	193	204	214	224	234	244	254	264	274	284	304

CAREYTEMP PREMOLDED ELBOW INSULATION

Careytemp Premolded Elbows insure total Careytemp insulating efficiency throughout entire systems when specified and used with Careytemp pipe insulation. They are recommended for use on piping systems operating from atmospheric temperature to 1500° F. Easily applied, Careytemp Premolded Elbows eliminate mitering segments, voids and also cut application costs.

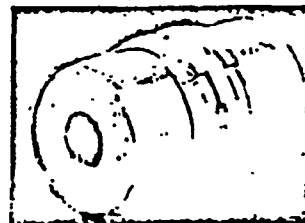
Careytemp Elbows are available in many iron pipe and copper tubing sizes and in thicknesses to match other



adjacent insulations, including low pressure coverings, fibrous glass, calcium silicates and others. Both 45° and 90° long and short radius ells are available for welded, screwed and sweat elbows. Iron pipe sizes range from $\frac{1}{2}$ " to 14", 1" to 4" thick. Careytemp ells are furnished for steam tracing purposes.

ALUMINUM JACKETED CAREYTEMP

Careytemp pipe insulation is available pre-jacketed at the factory with aluminum .016" thick. Aluminum jacketed Careytemp has a fine embossed finish that will not catch dust and dirt, prevents glare and minimizes surface scratches. Along the longitudinal seam, special interlocking lips snap together to form a weather-tight seal. Butt joints are sealed with a matching aluminum band having an integral sealing compound which resists direct contact temperature to 400° F. A built-in barrier is between the jacketing and the insulation as a precaution against electrolytic corrosion of the aluminum.



The inherent water resistance of Careytemp combined with the weather seal seam and special sealing band of aluminum jacketing provide an excellent weather protected insulation.

Also available in .010 stainless steel factory applied jacket.

CAREYTEMP TRACED PIPE INSULATION

Careytemp Traced Pipe Insulation is available to reduce the cost of insulating traced lines. Straight extended legs beyond the 180° point on half section. It provides space for $\frac{1}{2}$ " and $\frac{3}{4}$ " I.P.S. Tracers.

Available sizes and thicknesses 3", 4" and 6" I.P.S. by 1", 1 $\frac{1}{2}$ " and 2" thick and 8", 10" and 12" I.P.S. by 1 $\frac{1}{2}$ " and 2" thick all having 1 $\frac{1}{2}$ " legs.



CAREYTEMP

RECOMMENDED THICKNESSES

PROCESS

PROCESS		200°F.				300°F.				400°F.				500°F.				600°F.				700°F.			
Pipe Temperature																									
Temperature Difference		120°F.				220°F.				320°F.				420°F.				520°F.				620°F.			
Pipe Size	RT	HL	ST	E	RT	HL	ST	E	RT	HL	ST	E	RT	HL	ST	E	RT	HL	ST	E	RT	HL	ST	E	
1/8	1	18.0	94.0	77.0	1	31.5	105	70.0	1	47.9	117	82.5	1	67.4	128	87.2	1	87.0	142	87.0	1	110	154	87.5	
1/4	1	19.3	97.0	77.2	1	38.0	110	80.3	1	58.6	126	83.2	1	83.0	137	85.4	1 1/2	84.3	125	89.2	1 1/2	106	134	90.2	
1/2	1	20.1	94.2	80.5	1	39.2	107	83.0	1	60.7	118	85.3	1	97.5	133	89.3	1 1/2	83.4	126	90.3	1 1/2	118	136	91.2	
3/4	1	25.9	95.0	80.0	1	50.9	114	83.0	1	79.3	129	85.6	1	111	144	89.5	1 1/2	105	125	91.2	1 1/2	132	135	92.5	
1	1	26.6	96.0	81.7	1	52.1	110	84.5	1	80.8	124	86.0	1	112	139	88.5	1 1/2	117	130	91.3	1 1/2	146	141	91.5	
1 1/4	1	30.6	96.6	83.4	1	59.9	110	84.5	1	92.8	124	87.3	1	129	139	88.0	1 1/2	132	130	92.1	1 1/2	165	141	93.0	
1 1/2	1	30.7	94.0	84.5	1	68.5	112	86.0	1	107	128	87.5	1	149	142	89.0	1 1/2	135	125	93.2	1 1/2	170	135	93.9	
2	1	41.4	98.0	83.3	1	81.4	114	85.6	1	127	129	88.2	1	177	144	89.0	1 1/2	175	135	92.8	1 1/2	220	147	93.5	
2 1/2	1	49.5	98.0	84.8	1	98.0	113	84.4	1	150	130	88.1	1	211	146	89.8	1 1/2	210	139	93.2	1 1/2	263	152	94.0	
3	1	59.9	100	84.9	1	119	115	86.9	1	183	133	89.0	1	256	150	94.1	1 1/2	252	142	96.2	1 1/2	317	155	94.0	
4	1	75.3	104	83.7	1	150	122	85.9	1	235	136	87.0	1 1/2	237	134	92.0	1 1/2	310	148	93.0	2	304	141	95.2	
5	1 1/2	63.8	94.0	87.5	1 1/2	125	107	89.0	1 1/2	194	119	90.6	1 1/2	270	132	91.9	1 1/2	353	145	92.9	2	361	142	94.9	
6	1 1/2	74.8	84.0	89.7	1 1/2	145	107	91.2	1 1/2	225	119	92.4	1 1/2	314	132	91.2	1 1/2	415	145	94.1	2	421	142	95.8	
8	1 1/2	88.1	85.0	89.8	1 1/2	173	107	91.3	1 1/2	266	120	92.5	1 1/2	376	134	93.3	1 1/2	490	148	94.1	2	492	145	95.8	
10	1 1/2	101	97.0	89.2	1 1/2	199	111	90.7	1 1/2	311	124	91.8	1 1/2	438	139	92.8	1 1/2	571	152	93.7	2	563	149	95.7	
12	1 1/2	115	96.0	89.1	1 1/2	226	110	90.7	1 1/2	351	124	91.8	1 1/2	489	139	92.8	1 1/2	640	154	93.8	2	630	150	95.7	
14	1 1/2	128	96.0	89.1	1 1/2	251	110	90.8	1 1/2	391	125	92.1	1 1/2	584	139	92.4	1 1/2	713	155	93.9	2	702	151	95.7	

UTILITIES

UTILITIES																											
Pipe Temperature				200°F.				300°F.				400°F.				500°F.				600°F.				700°F.			
Temperature Difference				120°F.				220°F.				320°F.				420°F.				520°F.				620°F.			
Pipe Size				RT	HL	ST	E	RT	HL	ST	E	RT	HL	ST	E	RT	HL	ST	E	RT	HL	ST	E	RT	HL	ST	E
1/8				1	16.0	94.0	77.0	1	31.5	105	80.0	1 1/2	39.8	103	86.5	1 1/2	55.0	111	87.1	2	63.9	110	89.9	2 1/2	70.6	105	91.9
1/4				1	18.3	97.0	77.2	1	38.0	110	80.3	1 1/2	46.3	107	86.9	1 1/2	64.4	118	88.0	2	73.2	114	90.5	2 1/2	79.2	108	92.7
1/2				1	20.1	94.2	80.5	1 1/2	32.3	97.0	85.0	1 1/2	49.5	106	83.0	1 1/2	69.5	115	89.9	2 1/2	71.0	106	92.6	2 1/2	88.9	111	93.4
3/4				1	25.9	98.0	80.0	1 1/2	37.6	91.0	87.3	1 1/2	57.9	106	89.9	1 1/2	79.9	116	90.2	2 1/2	84.1	110	93.0	2 1/2	106	117	93.7
1 1/4				1	26.6	95.0	81.7	1 1/2	41.2	100	87.4	1 1/2	63.8	110	89.0	1 1/2	88.9	120	90.3	2 1/2	81.9	106	93.7	2 1/2	105	113	93.8
1 1/2				1	30.6	96.6	83.4	1 1/2	46.0	101	89.0	2	61.0	102	91.6	2	85.0	110	92.2	2 1/2	100	111	93.9	2 1/2	126	118	94.6
2				1	30.7	94.0	84.5	1 1/2	48.1	97.0	90.0	2	64.9	101	92.4	2	90.0	108	93.4	2 1/2	105	109	94.5	2 1/2	131	116	95.9
2 1/2				1	41.4	98.0	83.3	1 1/2	61.3	103	89.6	2	79.9	105	92.6	2	111	114	93.1	2 1/2	122	115	94.9	3	142	115	95.8
3				1	49.5	98.0	84.8	1 1/2	73.7	101	88.3	2	95.0	107	92.9	2 1/2	114	109	94.5	2 1/2	147	116	95.2	3	165	117	96.2
4				1 1/2	45.3	94.0	88.6	1 1/2	90.8	101	89.9	2	112	108	93.3	2 1/2	132	110	94.8	2 1/2	172	118	95.4	3	192	118	96.4
5				1 1/2	55.9	95.0	87.9	2	85.7	100	91.9	2	133	110	92.9	2 1/2	158	112	94.7	3	180	114	95.9	3	227	122	96.4
6				1 1/2	63.8	94.0	87.5	2	102	100	91.1	2	157	110	92.4	2 1/2	179	112	94.6	3	207	113	95.8	3 1/2	233	116	96.7
8				1 1/2	74.8	94.0	89.7	2	119	100	92.7	2 1/2	156	105	94.7	2 1/2	217	114	95.4	3	249	116	96.5	3 1/2	284	118	97.2
10				1 1/2	88.0	95.0	89.8	2	139	102	93.0	2 1/2	185	106	94.8	3	220	109	96.1	3	287	117	96.6	3 1/2	321	119	97.4
12				1 1/2	101	97.0	89.2	2	157	102	92.6	2 1/2	203	107	94.6	3	245	111	96.1	3	320	119	96.5	3 1/2	357	121	97.3
14				1 1/2	115	96.0	89.1	2	178	103	92.6	2 1/2	229	108	94.6	3	244	112	96.4	3	360	120	96.5	3 1/2	399	122	97.3
16				1 1/2	129	96.0	89.1	2	198	104	92.7	2 1/2	254	108	94.8	3	303	112	96.1	3	397	121	96.6	3 1/2	436	128	97.3

CAREYTEMP BLOCK DATA

Inner Surface Temperature °F.	Insulation Thickness										80°F. Air	
	1"	1 1/2"	2"	2 1/2"	3"	3 1/2"	4"	4 1/2"	5"	5 1/2"		
°HL	98.0	89.0	83.0	82.0	81.0	81.0	81.0	81.0	81.0	81.0	...	...
300° Sur. Temp. °F.	134	120	112	108	102	100	100	100	100	100	...	...
% Efficiency	90.1	93.0	94.6	95.8	96.5	96.9	97.0	97.0	97.0	97.0	...	...
°HL	184	126	98.0	81.0	87.0	87.0	87.0	87.0	87.0	87.0	...	...
500° Sur. Temp. °F.	171	147	134	128	119	114	110	107	106	106	...	...
% Efficiency	92.3	94.7	95.9	96.6	97.2	97.6	97.6	97.6	97.6	97.6	...	...
°HL	...	200	152	125	106	91.0	79.0	70.0	63.0	56.0	...	...
700° Sur. Temp. °F.	...	177	158	146	134	124	124	120	117	115	...	...
% Efficiency	...	95.7	96.8	97.3	97.7	98.0	98.3	98.3	98.6	98.7	...	...

*HL - Losses are in B.T.U. per Sq. Ft.

R - Recommended Thicknesses.

RT = Recommended Nominal Thickness in Inches. HL = Heat Loss in B.T.U. per ft. of Pipe.
ST = Surface Temperature °F. E = Percent Efficiency. Ambient still air at 80°F.

PROCESS

Pipe Temperature	800°F.				900°F.				1000°F.				1100°F.				1300°F.				1500°F.			
Temperature Difference	720°F.				820°F.				920°F.				1020°F.				1220°F.				1420°F.			
Pipe Size	RT	HL	ST	E	RT	HL	ST	E	RT	HL	ST	E	RT	HL	ST	E	RT	HL	ST	E	RT	HL	ST	E
1/2	1 1/4	111	137	89.7	1 1/4	133	147	91.4	2	138	138	93.1	2	181	148	83.9	2 1/4	183	138	95.5	2 1/4	232	151	96.1
3/4	1 1/4	130	148	91.1	1 1/4	154	156	92.0	2	158	145	93.7	2	184	154	94.3	2 1/4	204	146	95.7	3	243	147	96.8
1	1 1/4	141	143	92.2	2	145	135	94.0	2	172	144	94.5	2 1/4	180	137	96.2	2 1/4	233	152	96.4	3	271	153	97.2
1 1/4	1 1/4	161	144	92.9	2	154	148	93.7	2	204	153	94.8	2 1/4	211	145	95.8	3	251	147	96.8	3 1/4	293	151	97.5
1 1/2	1 1/4	179	152	93.0	2	169	135	95.1	2	242	155	94.5	2 1/4	208	139	96.3	3	243	141	97.3	3 1/4	295	144	97.8
2	1 1/4	202	152	93.7	2	203	144	95.2	2	240	153	95.7	2 1/4	250	148	96.5	3	291	151	97.2	3 1/4	342	153	98.1
2 1/4	1 1/4	207	145	94.8	2	203	143	95.8	2	252	149	96.2	2 1/4	282	144	97.3	3	313	149	97.8	3 1/4	361	151	98.2
3	2	223	141	95.3	2	267	151	95.9	2 1/4	272	147	96.8	3	284	143	97.2	3 1/4	337	147	98.1	4 1/4	371	144	98.6
4	2	265	146	95.6	2	318	155	96.0	2 1/4	319	151	97.0	3	329	146	97.5	3 1/4	393	151	98.2	4 1/4	422	146	98.7
6	2	313	149	95.7	2 1/4	315	144	96.8	2 1/4	373	153	97.0	3	382	149	97.9	3 1/4	453	155	98.3	4 1/4	483	150	98.8
8	2	353	149	95.9	2 1/4	376	149	96.7	3	389	147	97.5	3	452	155	97.7	4	475	148	98.5	4 1/4	542	153	98.9
8	2	431	152	95.5	2 1/4	430	147	96.7	3	441	144	97.4	3	512	154	97.7	4	554	151	98.5	5	608	150	98.9
10	2	515	154	96.3	2 1/4	520	152	97.2	3	535	150	97.8	3 1/4	558	148	98.2	4 1/4	609	147	98.8	5 1/4	666	148	99.1
12	2 1/4	507	143	96.9	2 1/4	605	154	97.3	3	621	151	97.8	3 1/4	642	151	98.4	4 1/4	694	150	98.8	5 1/4	754	150	99.1
14	2 1/4	570	148	96.8	3	589	146	97.5	3	694	155	97.7	3 1/4	710	155	98.3	4 1/4	763	153	98.8	5 1/4	835	154	99.2
16	2 1/4	840	149	96.9	3	659	147	97.8	3 1/4	678	146	98.1	4	711	147	98.5	5	781	148	98.9	6	868	150	99.2
18	2 1/4	711	149	97.0	3	729	148	97.6	3 1/4	755	148	98.2	4	787	149	98.5	5	859	149	98.9	6	949	151	99.3

UTILITIES

Pipe Temperature	800°F.				900°F.				1000°F.				1100°F.				1300°F.				1500°F.			
Temperature Difference	720°F.				820°F.				920°F.				1020°F.				1220°F.				1420°F.			
Pipe Size	RT	HL	ST	E	RT	HL	ST	E	RT	HL	ST	E	RT	HL	ST	E	RT	HL	ST	E	RT	HL	ST	E
1/2	2 1/4	85.3	111	92.7	2 1/4	105	118	93.2	3	114	114	94.3	3	132	120	94.9	3	172	130	95.7	3 1/4	207	130	96.6
3/4	2 1/4	106	117	92.8	2 1/4	115	119	93.9	3	127	118	95.3	3	147	123	95.4	3	193	135	95.9	3 1/4	231	138	96.9
1	2 1/4	108	117	94.0	3	121	117	95.0	3	141	122	95.5	3	164	127	96.6	3 1/4	201	132	96.9	3 1/4	247	139	97.5
1 1/4	2 1/4	128	124	95.3	3	141	122	95.4	3	165	128	95.8	3	192	134	96.2	3 1/4	232	138	97.0	4	276	141	97.7
1 1/2	2 1/4	127	119	95.1	3	142	118	95.9	3	167	124	95.2	3	194	130	95.6	3 1/4	234	132	97.4	4	277	138	97.9
2	3	137	117	95.7	3	164	123	96.2	3	194	124	96.5	3 1/4	207	129	97.1	4	251	132	97.6	4 1/4	301	138	98.3
2 1/4	3	147	116	96.2	3	176	122	96.8	3 1/4	188	120	97.2	3 1/4	219	126	97.7	4	268	131	98.0	4 1/4	321	138	98.4
3	3	174	122	95.3	3	208	129	96.8	3 1/4	223	126	97.2	3 1/4	258	133	97.5	4	313	139	98.3	5	348	138	99.7
4	3	202	124	95.6	3 1/4	220	124	97.2	3 1/4	259	130	97.6	4	278	127	97.9	4 1/4	335	134	98.4	5 1/4	384	135	98.9
6	3 1/4	217	119	97.0	3 1/4	255	126	97.4	4	270	125	97.9	4	314	132	98.1	4 1/4	381	137	98.6	5 1/4	519	138	98.7
8	3 1/4	243	121	97.2	3 1/4	291	128	97.5	4	313	128	98.0	4	365	130	98.1	5	460	135	98.5	6	462	136	99.1
8	3 1/4	285	122	97.0	4	312	124	97.6	4	366	129	97.8	4 1/4	393	131	98.2	5 1/4	484	136	98.7	6 1/4	507	133	99.1
10	3 1/4	340	125	97.5	4	367	126	98.0	4	435	133	98.2	4 1/4	466	133	98.5	5 1/4	528	135	98.9	6 1/4	594	136	99.2
12	4	355	121	97.8	4	425	128	98.1	4 1/4	459	128	99.4	4 1/4	534	130	98.6	6	617	137	99.1	7	640	136	99.3
14	4	391	123	97.9	4	468	130	98.0	4 1/4	503	131	98.3	4 1/4	535	134	98.7	6	620	136	99.0	7	701	138	99.3
16	4	435	124	97.9	4	521	131	98.1	4 1/4	559	133	98.4	5	597	134	98.7	6	683	137	99.1	7 1/4	733	137	99.3
18	4	479	126	98.0	4	576	133	98.1	4 1/4	615	135	98.5	5	657	135	98.7	6	751	138	99.0	7 1/4	802	138	99.3

Inner Surface Temperature °F.	Insulation Thickness					80°F. Air				
	1"	1 1/4"	2"	2 1/4"	3"	3 1/4"	4"	4 1/4"	5"	5 1/4"
°HL	...	...	185	148	128	108	95.0	84.0	76.0	70.0
800° Sur. Temp. °F.	...	...	171	157	146	139	132	128	124	121
% Efficiency	...	...	97.1	97.6	98.0	98.3	98.5	98.6	98.8	98.9
°HL	...	...	...	206	172	149	132	117	106	97.0
1000° Sur. Temp. °F.	...	...	...	179	166	156	148	142	136	133
% Efficiency	...	...	...	98.1	98.4	98.6	98.7	98.9	99.0	99.0
°HL	...	...	...	...	228	185	172	153	138	126
1200° Sur. Temp. °F.	...	...	...	...	186	175	168	158	151	146
% Efficiency	...	...	...	...	98.7	98.8	99.0	99.1	99.2	99.3

CAREYTEMP 2000

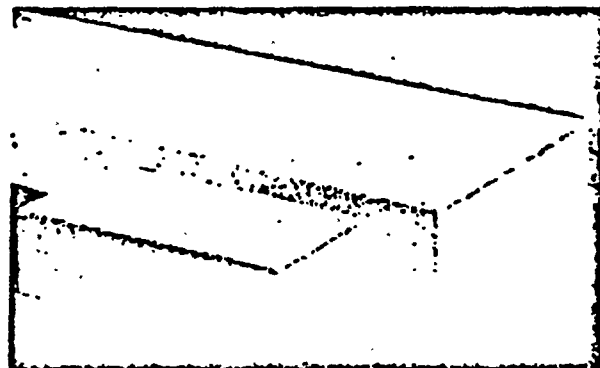


Careytemp 2000 — Annealing Furnace



Careytemp 2000 — Aluminum Pot Line

HIGH TEMPERATURE BLOCK INSULATION FOR TEMPERATURES FROM 1000° F. TO 2000° F.



Careytemp 2000 is composed of calcined diatomaceous silica with a specially developed binder reinforced with inorganic fibre. It is produced in precision molded insulation blocks for equipment operating at high temperatures such as boiler furnaces, hot blast stoves, petroleum cracking furnaces, metallurgical furnaces and ceramic kilns. These light weight blocks will withstand temperatures up to 2000° F with negligible shrinkage.

PHYSICAL PROPERTIES

Density	24 lbs./cu. ft.
Thermal Conductivity	BTU/Hr./Sq. Ft./° F./inch
500° F. Mean	.70
750° F. Mean	.76
1000° F. Mean	.84
Linear Shrinkage %	
a. 1500° F. for 24 hours	0.5
b. 1800° F. for 24 hours	2.3
c. 1900° F. for 24 hours	2.7
d. 2000° F. for 24 hours	2.9
Compressive Strength	5% deformation 163 psi 10% deformation 209 psi
Transverse Modulus	
Dried at 220° F. for 24 hours	100 psi
Moisture Absorption by Volume @ 95% Rel. Humidity %	
24 Hours	1.6
Water Absorption by Volume %	
24 Hours Immersion	20.0

STANDARD SIZES

Length 36"; widths 6" and 12"; Thicknesses 1" to 3"
In ½" increments

GOVERNMENT SPECIFICATION COMPLIANCE

MIL-I-2819D
Class IV

A.S.T.M. C-517-64. Class I & II
(Flat Block Only)

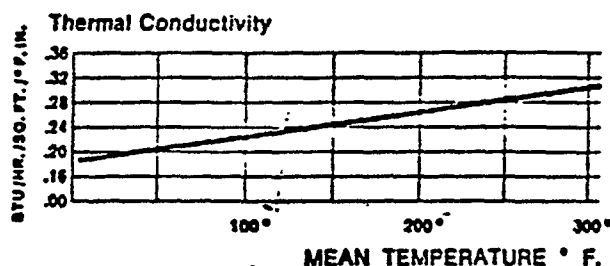
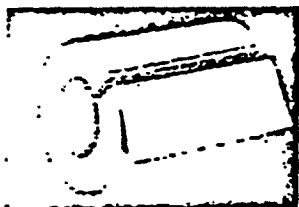
THERMOGLAS INSULATIONS

THERMOGLAS PIPE INSULATION

Thermoglas is a one-piece, snap-on, fine fiber glass pipe insulation for temperatures up to 350° F. It is an exceptionally lightweight insulation composed of long, fine, blown glass fibers bonded with thermal-setting phenolic resin. It is strong, semi-rigid and resilient with no coarse fibers to irritate hands or skin.

Carey Thermoglas will not sag, rot, mold, or otherwise decompose. Resists attack of most acids and alkalis and is not corrosive to metals. Will not chip, flake, dent, break or crumble and is unaffected by water and insects—has very low moisture vapor pickup.

Thermoglas pipe insulation is recommended for hot water and low-temperature steam piping in industrial plants, commercial buildings and institutions. Thermoglas can be used as an outside layer over a high-temperature insulation. It is also an excellent cold and dual-temperature insulation when used with a vapor barrier jacket. Thermoglas pipe insulation is furnished plain or with a variety of vapor barrier and weather-proofing jacketings.



THERMOGLAS ROLL FORM INSULATION TYPE F

Thermoglas F Roll Form is an extremely fine glass fiber insulation for thermal and acoustical application—for service from sub-zero to 450° F. It is made in a variety of thicknesses, densities and roll widths to suit almost any insulation requirement. It can be furnished cut to special widths or shapes depending upon quantity uses. It is available plain or faced with a variety of facing materials adhered to the insulation.

Thermoglas Roll Form is extremely lightweight, easy and pleasant to handle. It is flexible and resilient, runs quickly around curves and corners without special fitting. Can be cut to desired shape and size with an ordinary knife and can be firmly fastened in place with adhesives, wires, metal screws or washers. Furnished in minimum roll width of 6", maximum roll width 72". Standard stock widths are 24", 36", 48" and 72".

THERMOGLAS ROLL FORM INSULATION TYPE TX

Thermoglas TX is made from long, continuous, textile-type glass fibers... the same as used in plastic reinforcing. These fibers are drawn from stabilized calcium borosilicate glass to an average diameter of 9 microns. They are chopped (2" to 4" long) and firmly bonded in random orientation with a thermo-setting phenolic resin. Thermoglas TX strength, resiliency, and ability to retain full thickness from repeated compression are unequalled by other insulating materials. It is easily cut for installation.

Thermoglas TX is available plain or faced with a variety of facing materials adhered to the insulation. Thermoglas Roll Form is very light weight with excellent thermal properties. It affords a low cost insulation for both thermal and acoustical conditions. Available in same widths as Type F.

THERMOGLAS ROLL FORM INSULATION 20 SERIES

Thermoglas 20 Series thermal and acoustical insulation is an efficient fiber glass blanket insulation composed of extremely fine glass fibers bonded together with a thermo-setting phenolic resin. These fibers are spun from a carefully controlled borosilicate glass mixture, and their fine diameter ensures a multitude of air spaces.

Thermoglas 20 Series is a versatile insulating material. It is available either plain or faced for duct wrap and many other thermal and acoustical requirements where the temperature does not exceed 435° F. It is rated "incombustible" in accordance with the fire resistance requirements of Standard, Federal, Military and Commercial Specifications. It will not burn, absorb odors, rot, mold, corrode metals, or disintegrate under vibration. It is easy to handle and can be cut with a knife for simple fabrication and installation. Available in same widths as Type F.

THERMOGLAS HV DUCT LINER

Thermoglas HV Duct Liner is a distinctive, one piece fiber glass duct liner with graduated density, produced from an exclusive process, that provides all of the desirable features of a multi-density duct liner without the disadvantages of a laminate-type construction. There are no layers that can peel off under high velocities (up to 10,000 FPM) and no special surface treatment required as there is negligible friction loss and no erosion.

Will withstand temperatures as high as 425° F.; it will not burn, rot, mold, pick-up odors, corrode metals or disintegrate under vibration.

Flame spread classification less than 25.

Available: ½", 1", 1½" and 2" thick and in any width from 24" through 48".

THERMOGLAS INSULATION BOARD

Thermoglas Insulation Board is an improved semi-rigid glass fiber duct insulation for temperatures up to 250° F. It is composed of fine glass fibers bonded together with a phenolic resin binder. Available plain, with factory applied vapor barrier facings, or spray coated on one or two sides, with a fire-resistant neoprene compound meeting NDFU requirements.

Thermoglas Insulation Board is easily cut, quickly handled—produces neat rectangular corners—no scoring necessary. With a vapor barrier facing, it is ideal for cooling, ventilating or dual temperature ductwork. Furnished in 24" x 48" sheets, in thicknesses of ½", ¾", 1", 1½" and 2".

RECOMMENDED SPECIFICATIONS AND APPLICATION PROCEDURES

The following specifications are of a general nature. Application procedure and material approval to meet job requirements are the responsibility of the design engineer.

CAREYTEMP PIPE INSULATION

All pipe insulation shall be applied over a clean, dry surface. Sectional Careytemp under 12" in diameter shall be installed with all joints closely butted together and secured in place by pasting down the canvas laps, furnished with the covering, in a neat and workmanlike manner.

Insulation on pipes over 12" in diameter and all outdoor piping shall be wired in place with 16 gauge soft annealed iron wire on approximately 9" centers. Where double layer insulation is applied, the first layer shall be secured with wire, the second layer should be applied with all joints staggered and secured with wire.

Elbows shall be insulated with Premolded Careytemp elbow covers wired in place and finished by pasting on a 4-oz. canvas jacket. Other fittings, flanges and valves shall be insulated with covers fabricated from Careytemp Pipe Insulation or built up with MW-One cement.

Indoor piping under 12" diameter supplied with a factory applied jacket requires no additional finish under normal conditions. Indoor piping over 12" diameter shall be finished with a 6-oz. canvas jacket neatly pasted in place.

Outdoor piping shall be finished with a 45-pound organic or asbestos felt jacket with both longitudinal and horizontal joints lapped a minimum of 2". The jacket shall be secured with 16 gauge copperweld wire on 9" centers or 1/2" wide galvanized bands on 12" centers. Other types of jacketing such as aluminum, sheet metal, plastic coating, etc. may be installed as recommended by the manufacturer.

All indoor fittings, flanges and valves shall be pointed to a smooth surface and finally finished with a canvas jacket neatly pasted in place. Outdoor fittings, flanges and valves shall be finished with a 1/4" (1/2" dry) coat of Thermotex-B Emulsion reinforced with 1" wire mesh.

CAREYTEMP BLOCK AND SEGMENTS

Surfaces over 24" diameter up to and including 60" diameter shall be insulated with Careytemp curved segments securely fastened in place with 16 gauge black annealed wire or 1/2" x .020 galvanized steel strapping and seals on 12" to 18" centers. All joints in the segments shall be staggered. All voids and joints shall be pointed-up with Careytemp or MW-One cement. Then apply wire mesh over the insulated surface. Finally, apply a 3/8" to 1/2" coat of Careytemp or MW-One cement over the wire mesh. If Careytemp cement is used, it shall be applied in two coats with the second layer troweled smooth. Indoor work shall have a final 6 or 8 ounce canvas jacket neatly pasted in place over the insulated surface. Outdoor application shall be weatherproofed by applying a 1/2" (1 1/2" dry) thickness of Thermotex-B Emulsion reinforced with 1" mesh wire.

Surfaces over 60" diameter shall be insulated with Careytemp flat block securely fastened in place with 16 gauge black annealed wire or 1/2" x .020 galvanized bands and seals on 12" to 18" centers using staggered joint construction. Point all voids and joints with Careytemp or MW-One cement. Then apply wire mesh over the insulated surface. Over the mesh, apply a 3/8" to 1/2" coat of Careytemp or MW-One cement. If Careytemp cement is used, cement shall be applied in two coats, the final coat to be troweled to a smooth finish. Indoor work shall have a final 6 or 8 ounce canvas jacket neatly pasted in place over the insulated surface. Outdoor application shall be weatherproofed by applying a 1/2" (1 1/2" dry) thickness of Thermotex-B Emulsion reinforced with 1" mesh wire.

It is recommended for large vessels, such as towers, tanks, stills, etc., that angle iron supports be installed on 12-ft. centers. On large vessels, vertical angle iron members should be installed to hold a 30-ft. maximum length of the securing wire or band. Horizontal vessels over 6 feet in diameter should have two steel angles welded to the vessel shell approximately 30 degrees below the horizontal center line. The depth of these supports should be held to 1/2" less than the insulation thickness.

THERMOGLAS PIPE COVERING

Piping shall be clean and dry and shall be tested before insulation is applied.

For hot water, cold water and low pressure steam lines 50° F. to 250° F.

All cold water lines shall be insulated with Thermoglas (snap-on type) pipe insulation having a universal jacket.

Hot water and low pressure steam lines shall be insulated with Thermoglas (snap-on type) pipe covering having either a canvas or universal jacket. See the Carey Industrial Insulation Manual for proper thickness.

For Cold and Dual Temperature Piping - 35° F. to 250° F. Thermoglas (snap-on type) pipe covering having a white or black vapor barrier jacket shall be applied in thicknesses as outlined in the Carey Industrial Insulation Manual. Adjoining sections shall be tightly butted together and the longitudinal seam of the vapor barrier jacket sealed with factory-supplied collars applied with vapor barrier cement.

THERMOGLAS DUCT INSULATION

Thermoglas "TX" or "F" Roll Form duct insulation shall be adhered to the duct with a suitable adhesive applied in accordance with the manufacturer's recommendation. It is recommended that tying cord, tie wires or staples be used to secure the insulation until the adhesive sets. On large flat or curved surfaces, Thermoglas Roll Form shall be impaled on welded or cemented pins on suitable centers to keep the insulation tight against the surface. All joints shall be butted tightly together.

When a factory-applied vapor barrier or other type of facing is used, all joints shall be sealed with a tape or facing lap tightly cemented in place. It is important that a tight vapor barrier jacket be provided on all surfaces that operate below ambient temperatures.

THERMOGLAS DUCT LINER

Ducts requiring insulation liner shall be lined by adhering Thermoglas "F", "TX" or H.V. duct liner to the interior duct surface with a heavy coat of quick-set adhesive. All joints shall be tight and coated with adhesive to be sure of a smooth and coated surface to face the air stream. Insulation for all ducts over 24" wide or high shall be additionally secured with mechanical fasteners such as welding pins and clips or sheet metal screws and washers.

THERMOGLAS INSULATION BOARD

External Application: Impale Thermoglas board on welded pins spaced 12" to 18" centers and secure with suitable speed nuts. No surface shall have less than two rows of studs.

Internal Application: Ducts requiring insulation liner shall be lined by cutting pieces to fit the duct interior. All joints are to be butted tightly together. The liner shall be fastened to the duct with a heavy coat of quick-set adhesive over the entire surface. The top and bottom pieces are to lap the side pieces. All exposed edges of the insulation at the duct ends shall be coated with adhesive and the coated surface shall face the air-stream. Insulation for ducts over 24" wide or high shall be additionally secured with mechanical fasteners such as welding pins.

MINERAL WOOL AND FLEXIBLE TUBING INSULATIONS

INDUSTRIAL MINERAL WOOL BLANKET

Mineral Wool Blanket is a highly flexible industrial insulation for temperatures up to 1200° F. It is made from felted, high-temperature, moisture-resistant spun mineral wool secured between various metal fabrics, providing a highly flexible insulation. It does not damage easily in handling and can be readily cut and fitted around projections and irregular shapes.

Mineral Wool Blankets are recommended for insulating boiler breechings, hot air ducts, industrial ovens, dryers, precipitators and similar heated equipment, especially those having irregular surfaces. Special mesh or metal facings to meet other specifications can be furnished. Standard sizes: 2' x 4' and 2' x 8'. Standard thicknesses: 1", 1½", 2", 2½", 3", 3½", 4", 5" and 6". Thermal conductivity: At 100° F.—.224. At 600° F.—.567.



SPUN MINERAL WOOL FELT INSULATION

Spun Mineral Wool Felt Insulation is made in semi-rigid sheets processed from long, fine fibers of spun mineral wool. Light in weight, with density from 3 thru 8 lbs. per cubic foot, this insulation is easily handled and quickly installed. It provides a high degree of thermal efficiency and will not absorb moisture. It is recommended for a temperature range of 500 to 600° F.

Spun Mineral Wool Felt Insulation is inorganic in composition and does not cause corrosion of metal duct surfaces. It's easy to cut with a knife to conform to irregular surfaces. Recommended for same uses as Industrial Mineral Wool Blanket.

Furnished in sizes: widths 12", 15", 20" and 30"; lengths 30" to 60". Thickness 1" thru 4"—½" increments.

7CF MINERAL WOOL INSULATION

7CF Mineral Wool Insulation is a versatile insulation that can be readily applied to a wide range of surfaces. 7CF is composed of long, fine mineral fibers bonded together with a non-punking binder. Recommended for insulating surfaces up to 700° F. An ideal insulation for insulating boiler walls, hot gas ducts, hot process tanks and equipment.

7CF Mineral Wool Insulation has a density of 8 lbs. per cubic foot. Standard sizes: 30" in width by 74" and 48" in length. Thickness 1" through 4" in ½" increments. Thermal conductivity: At 100° F.—.242. At 400° F.—.484.

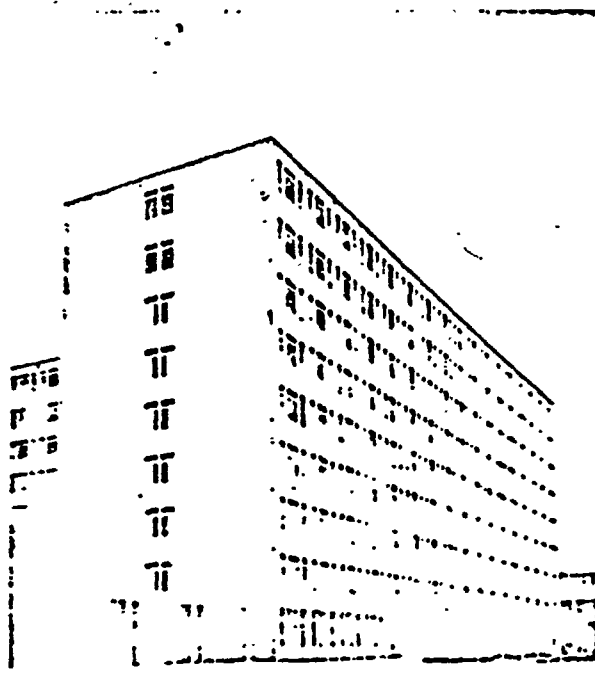
FLEXIBLE TUBING INSULATION

Flexible Tubing Insulation is a tough, flexible, unicellular material constructed of millions of uniform closed cells; oil and flame resistant; can be cemented to steel, copper, enamel, aluminum and itself. For insulating piping and copper tubing; temperatures up to 200° F.

Flexible Tubing Insulation can be bent, twisted and formed. Yet it is so resilient that it springs back to its original shape when put in place. It is recommended for insulation of dual temperature lines carrying hot or chilled water from a central system to air conditioning units. Many of these lines are formed copper tubing and are difficult to insulate, even with semi-rigid materials. Available in sizes from ¼" through 3½" I.D. Thermal conductivity: At 70° F.—.25. At 110° F.—.26.



This material is also available in flexible sheet form in 24" x 60" size, with thicknesses from ¼" through ¾" in ½" increments. Thermal conductivity: At 75° F.—.28.



Caroytemp and Thermoglas insulations were used at Sacred Heart Hospital, Eau Claire, Wisconsin.

CEMENTS AND ADHESIVES

CAREYTEMP ASBESTOS CEMENT

Due to the high resistance of Careytemp insulation to moisture, ordinary asbestos cements are not recommended. Careytemp Asbestos Cement has been developed for use where an asbestos cement is required over Careytemp. It dries to a smooth, hard white surface, will take an initial set in two to three hours and reach a satisfactory condition of dryness in 24 hours. Furnished in multi-wall 50-lb. paper bags.

MW-ONE INSULATING CEMENT

MW-One is a combination insulating and finishing cement for temperatures up to 1000° F. Carey mineral wool pellets and other ingredients, including rust inhibitor, are combined to form this monolithic, all-purpose, fast-setting finish cement that insulates as well as protects.

MW-One is applied quickly and easily in a single coat. It has a tough, smooth white surface and has negligible shrinkage. MW-One sets in two to three hours. It is rust inhibitive, non-combustible and water resistant.

MW-One is used for valves, fittings, tanks, ovens, hot air ducts. It can be applied directly over any insulation or it can be used as a finishing cement for Carey MW-50. Furnished in multi-wall 50-lb. paper bags. Thermal conductivity: At 100° F.—.54.

NO. 303 ASBESTOS CEMENT

(General Utility)

Composed of asbestos fibers and bonding clays, No. 303 Cement is a general utility cement for finishing and pointing up fittings. It sticks to all surfaces and finishes medium hard. Furnished in multi-wall 50-lb paper bags and 100-lb burlap bags.

MW-50 INSULATING CEMENT

MW-50 Cement is a complete insulating material in itself. Special MW-50 nodular mineral fibers are combined with bonding materials, asbestos fiber and a rust inhibitor to produce a mixture with excellent physical and thermal properties.

MW-50 has more than double the insulation value of ordinary asbestos cements. It adheres to both warm and cold surfaces. A 50 lb. bag of MW-50 Cement covers approx. 25 sq. ft. one inch thick and insulates as well as a two or three-inch coat of ordinary asbestos cement.

MW-50 Cement is an excellent monolithic insulation for valves, fittings, expansion joints, heaters, exchangers, access doors, water tube boiler walls, tanks, stills, drum-heads and other heated equipment operating at temperatures up to 1800° F. It is particularly recommended for irregular surfaces. Furnished in multi-wall 50-lb. paper bags. Thermal conductivity: At 100° F.—.41.

NO. 100 ASBESTOS CEMENT

(Hard Finish)

Composed of asbestos fibers and bonding clays, No. 100 Cement is specifically designed to give a hard, smooth white surface over block work or other insulation. This cement has very low shrinkage. Furnished in multi-wall 50-lb. paper bags and 100-lb. burlap bags.

VITRICEL CEMENT

(Semi-refractory Finishing)

Composed of asbestos fibers and bonding materials, Vitricel Cement is a dry, semi-refractory hydraulic cement for temperatures up to 1900° F. It's used for pointing up joints and cracks in stack and breeching linings, covering metal parts exposed to hot corrosive gases and surfacing block insulation installed inside breechings, ducts, economizers. Vitricel Cement resists moisture and has a very low drying and heat shrinkage. Furnished in multi-wall 50-lb. paper bags.

LM-20 ASBESTOS CEMENT

(Long Fiber)

Composed of long asbestos fibers and bonding clays. It is a medium hard finish cement for final surfacing of insulation where expansion strains are severe, such as over boiler water walls. This cement trowels to a smooth white finish. Furnished in multi-wall 50-lb. paper bags and 100-lb. burlap bags.

7M-90 ASBESTOS SHORT

INSULATION CEMENT

Recommended as a finish over preformed insulations for temperatures up to 1000° F. Furnished in multi-wall 50-lb. paper bags and 100-lb. burlap bags.

FIBROUS ADHESIVE

(Bonding)

Fibrous Adhesive is a fibrous plastic cement of thin troweling or brushing consistency, composed of asbestos fibers, silicate of soda and filler materials. It is designed for laying up insulating blocks and making fittings. It makes a very strong heat-proof bond that is unaffected by temperatures up to 800° F. Furnished in 1-gal. cans, 5-gal. pails and 55-gal. drums.

A special composition of asbestos fibers, silicate of soda and additives to provide a satisfactory adhesive which must be used with highly moisture-resistant Careytemp insulation. Careytemp Adhesive is similar to Fibrous Adhesive in consistency, application procedures, coverage and temperature limitations. It can also be used with other types of insulations. Furnished in 1-gal. cans or 5-gal. pails.

PROTECTIVE COATINGS

THERMOTEX-B

Thermotex-B is a breathing-type weather-resistant coating for temperatures up to 200° F. It is a combination of asbestos fibers, emulsified asphalt and mineral stabilizers. Forms a cold plastic water-resistant coating which is applied by trowel in one or more coats.

Thermotex-B is recommended as a durable coating for insulation on hot equipment, ducts, vessels, breechings; tanks, towers, heat exchangers and fittings that are subjected to weather conditions. It is especially suited for oil and chemical plant use because it resists acid and alkaline conditions and can be installed over insulation that is not completely dry. After application over moist insulation, Thermotex-B allows the trapped water vapor to escape while remaining impervious to surface water. Furnished in 45-lb. pails, 260-lb. drums and 470-lb. drums.

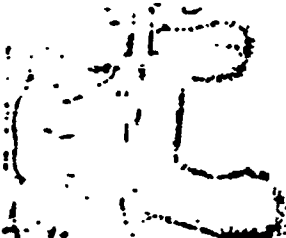


INSULATION SEAL

Insulation Seal is a ready mixed asbestos fibrated bituminous mastic. It is especially compounded for cold application over most types of insulating materials. It protects the insulation against damage and loss of efficiency by the penetration of water and water vapor. Made in spray or trowel consistency.

A fire-resistant Insulation Seal is also available.

Insulation Seal can be used on pipes, curved and flat surfaces of all kinds. It will hold its bond on horizontal, vertical, sloped or inverted surfaces. Designed for application over insulation such as asbestos cement, rock wool base cements, cellular glass, fibreglass, mineral wool blankets. It is specially recommended for systems operating at temperatures below dew point, dual temperature systems (200° F. maximum surface temperature), and systems subject to long shut-down periods. Furnished in 1-gal. cans, 5-gal. pails, 54-gal. drums.



NO. 51 EMULSION

No. 51 Emulsion is composed of asphalt, water and bentonite clay, with troweling consistency. May be used as a prime and bond coat for insulation and cold storage vault and other low temperature insulated construction, as well as for temperatures up to 200° F.

Mixes well with asbestos fibre and sand to make "on-the-job" finished coats. Furnished in 5-gal. pails and 55-gal. drums.

PVA NO. 100 EMULSION COATING

PVA No. 100 is a polyvinyl acetate emulsion coating and is recommended for both indoor and outdoor application.

PVA No. 100 is designed for use over insulation, concrete, cinderblock, asbestos shingles and brick. It will provide an unusually tough, flexible and weather resistant surface. Easily applied by palm, trowel or special spray equipment in thickness from one-sixteenth of an inch to one-eighth inch depending on the protection needed.

PVA No. 100 is available in 7 colors and white—buff, green, gray, blue, yellow, black, and red.

NO. 228 FIBRATED EMULSION

No. 228 Fibrated Emulsion is an odorless composition of bentonite clay type emulsified asphalt and asbestos fibre similar to Thermotex-B, with a troweling consistency. No. 228 can be used as a weather-resistant coating to protect insulation exposed to weather, chemical fumes and liquids. It is applied to wire mesh stretched over insulation; on insulating air conditioning ducts as a coating or for "running the seams" on rigid duct insulation. As a protective damp-resistant coating on foundation walls and perimeter insulation, it can also be used as a mastic finish coat in cold storage vault construction. Recommended for temperatures up to 200° F. Furnished in 1-gal. cans, 5-gal. pails, and 55-gal. drums (Nominal).

CORK-COTE MASTIC

Carey Cork-Cote Mastic is an asphalt-base mastic containing a high percentage of granulated cork. The mastic film protects equipment from weather and corrosion and decreases the possibility of condensation forming on the equipment.

Carey Cork-Cote Mastic is used by the refinery, chemical and petro-chemical industries as an anti-sweat insulating and weather-resistant coating applied directly to the primed metal surface. Used on fractionation towers, oil or water storage tanks, ducts and pipes. Recommended for temperatures up to 200° F. Furnished in 5-gal. pails and 55-gal. drums (Nominal).

BTU CEMENT

Carey BTU Cement is a ready mixed asbestos fibrated bituminous mastic of a troweling consistency. It is especially compounded for cold application to exterior surfaces of porous masonry walls not to exceed 200° F. surface temperature. It produces a firm, tough, air-impervious plastic film which effects an air-tight seal, preventing infiltration of cold air through mortar joints, porous masonry and structural cracks.

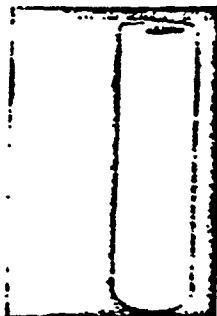
BTU Cement can increase boiler efficiency and save as much as 10% on fuel bills when it is used for sealing the outside walls of brick boiler settings. It can be used in power plants, boiler rooms, factories, apartments, hotels and institutional buildings. Furnished in 1 gal. cans (six per carton), 30 gal. drums (Nominal), 52 gal. drums (Nominal).



INSULATION JACKETING

FIRECLAD JACKETING

Fireclad Jacketing is a durable, weather-resistant jacketing specifically designed for the protection of outdoor pipe lines where the danger of fire must be minimized. Carey Fireclad consists of a tough, substantial sheet of asphalt saturated asbestos felt, over which is cemented on one side an unsaturated asbestos sheet. The complete sheet is reinforced with a fabric of tough, flexible glass threads. Fireclad Jacketing will not drip asphalt in the presence of fire and is highly resistant to combustion.



Fireclad Jacketing is recommended for use in the process industries and in oil refineries, where it affords maximum resistance to the spread of fire—and further protects the insulated surface from weather damage. Furnished in approximately 45 lb. rolls 38" wide by 34'6" long, containing 108 sq. ft.

ASBESTOS FELT

Asbestos felts in various weights are used to protect insulated piping and equipment from weather damage. The asbestos base of these felts is highly resistant to weather damage and provides long lasting protection.

ASBESTOS PAPER AND ROLLBOARD

Asbestos Paper and Rollboard are strong, flexible, fire-resistant sheets composed of pure Canadian asbestos fibre and free from hard, rocky particles. 6-lb. and 8-lb. Commercial Grade Asbestos Papers are used extensively in the manufacture of various pipe insulation and electrical insulation. The 10-lb. and 12-lb. papers are used for wrapping hot air furnace pipes. Heavier weights are used for lining stoves, ovens, gas ranges and for making gaskets, filters and discs. Furnished in standard widths of 18", 24", 36" and 37½" rolls. Special sizes can be made to order.

ASBESTOS MILLBOARD

Asbestos Millboard is made from pure Canadian asbestos fibre pulp mixed with binding materials and formed in sheets. Asbestos Millboard is used extensively in the electric heating field and glass industry. It is recommended for use in fire screens and partitions, as a fire-proof lining for ceilings, walls, floors, elevator shafts, motion picture machine booths, ranges, stoves, grates, electric ovens, sterilizers and roasters. No. 7 grade withstands temperatures up to 800° F.; No. 1 grade withstands temperatures up to 1000° F. Furnished in 42" x 48" sheets in thicknesses from ¼" to 1".

ORGANIC FELTS

Organic felts are available for economical weather-proofing of piping and equipment. They do not have the aging characteristics of asbestos but will provide years of satisfactory protection.



PHILIP CAREY CORPORATION

CINCINNATI, OHIO 45215

DISTRICT OFFICES AND WAREHOUSES

ATLANTA
2033 Tucker Industrial Rd.
Tucker, Georgia 30084
404-929-1505

BOSTON
763 O Concord Avenue
Cambridge, Mass. 02138
617-876-7700

CHICAGO
25th & Warren Avenue
Bellwood, Illinois 60104
312-287-7232

CINCINNATI
1307 Atkinson Square
Cincinnati, Ohio 45246
513-821-3000

CLEVELAND
16550 Hummel Road
Cleveland, Ohio 44142
216-671-6270

DETROIT
14420 Livernois Avenue
Detroit, Michigan 48238
313-368-2600

EDISON
514 Rutland Center
Edison, New Jersey 08817
201-496-0530

HOUSTON
1403 North Post Oak Road
Houston, Texas 77024
713-686-3761

INDIANAPOLIS
1111 S. Franklin Road
Indianapolis, Indiana 46239
317-356-6193

MEMPHIS
1510 Orenda Road
Memphis, Tennessee 38107
901-526-6361

MONTREAL
The Philip Carey Co., Ltd.
95 Stinson Boulevard
Ville St. Laurent
Montreal 9, P.Q., Canada
514-748-6331

NEW YORK
Smith Street & Victory Bridge
Park Avenue, N.Y. 10062
201-826-6881

PHILADELPHIA
24th and Sedgley Ave.
Philadelphia, Pa. 19132
215-229-6430

PROVIDENCE
40 Polton Road
East Providence, R.I. 02916
401-434-0250

ST. LOUIS
10847 Midwest Industrial Blvd.
St. Louis, Missouri 63132
314-423-5500

WASHINGTON
10710 Hanna Street
Baltimore, Maryland 20705
301-474-8922

WEST COAST
Los Angeles Area
Insulations Division
512 So. Monterey Pass Rd.
Monterey Park, Calif. 91754
213-783-8557

Other Than Los Angeles Area
13711 Freeman Drive
Santa Fe Springs, Calif. 90670
213-848-6740

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