Ruberoid Pressure Molded Calsilite®

THE MOST EFFECTIVE INSULATION CONTROL FOR SOAKING HEATS
IN ALL MAJOR CHEMICAL, POWER AND PROCESSING INDUSTRIES

Ruberoid Pressure Molded Calsilite®

THE NEW INDUSTRIAL INSULATION FOR ELEVATED TEMPERATURES
DESIGNED FOR GREATER EFFICIENCY AND EASIER APPLICATION

HANDLES...

SAWS...

WORKS MORE EASILY

PLAINTIFF'S
EXHIBIT
GF-1860

Ruberoid Pressure Molded Calsilite®

represents a major advance in the solution

of industrial insulation problems

FACT: NEW CALSILITE SAWS, HANDLES, MITRES, WORKS MORE EASILY

REASON: IT IS TOUGHER, STRONGER, SMOOTHER, MORE UNIFORM

RESULT: FASTER, NEATER INSTALLATION, DOLLARS SAVED

Ruberoid Calsilite is an improved calcium silicate insulation, precisely molded to fit accurately with fewer and tighter joints. It is uniform, smooth, and free of voids . . . cuts easily and mitres cleanly without special equipment . . . applies quickly to cut costs even on involved installations.

Calsilite is not soluble in water and is not affected by most normal acids and alkalis. It retains its shape even when completely saturated and returns to normal thermal efficiency when dry. Calsilite has an extremely low thermal conductivity, is chemically stable, will not rot, and will not support combustion.

Lightweight and strong, Calsilite handles easily and takes unusual punishment without serious damage. It finishes smoothly providing a clean, neat appearance. The new sectional design cuts job time and saves money by doing away with piece-by-piece installation. Its fine texture makes it easy-to cut and fabricate without crumbling or breaking . . . reducing wasted time and materials. Compatible Ruberoid cements seal joints and fittings neatly.

USES: The low K factor of Calsilite makes it perfect for application on industrial piping and equipment operating at temperatures up to 1250°F; its resistance to water damage allows its use on high moisture or high humidity installations, inside or out, below or above ground. Application in areas of high inflammability are safe because of the fireproof qualities of Calsilite.

AVAILABLE FORMS AND SIZES: Calsilite is available to fit all standard pipe and tubing. Half sectional Calsilite is available for pipe up to 24" IPS, segmental Calsilite above 24" IPS, in all thicknesses up to and including 3". Calsilite Block is available up to 4" thickness in 6" and 12" widths.

SPECIFICATIONS: Calsilite insulation meets ASTM Specification C 533 64T and Federal Specification HH-I-00523D (GSA FSS) for Block and Pipe Covering. Calsilite Pipe Covering meets Specification MIL-I-2781-D dated June 13, 1963. Calsilite Block meets Specification MIL-I-2819D dated August 9, 1963



TAKES PUNISHMENT | HANDLES EASILY | APPLIES QUICKLY | SAWS CLEANLY | FORMS EASILY | TIGHTER JOINTS | FULL SIZE RANGE | NEAT APPEARANCE

Technical Data / Ruberoid Pressure Molded Calsilite®

DESIGN DATA

Property	Value
Thermal Conductivity / Mean Temp. (BTU/sq. ft./inch/hr./°F.)	200 °F 300°F 400°F 500°F 600°F 0.35 0.40 0.45 0.50 0.55
Density (Average)	12.5 lbs. / cu. ft.
Flexural Strength (Average)	200 lbs. / sq. in.
Resistance to Abrasion (loss in weight — max.)	After 10 min.—10%, after 20 min.—20%
Change under Scaling Heat (Loss of weight)	24 hrs. @ 1200 F.—7.5%; 6 hrs. @ 1800°F—7.0%
Water Drainage	24 hrs. @ 1200 F.—1.5%; 6 hrs. @ 1800°F—0.8%
Compressive Strength (after saturation in water for 16 hours, while hot)	120 psi to produce 5% deformation

Insulation Thickness	Nominal Pipe Size, Inches																					
	½	¾	1	1¼	1½	2	2½	3	3½	4	4½	5	6	7	8	9	10	11	12	14	16	17	18
1	3.34	3.27	6.87	1.67	2.38	2.56	1.99	3.35	3.62	4.21	5.14	5.85	5.42	—	—	—	—	—	—	—	—	—	—
1½	2.75	2.66	3.30	4.02	3.85	4.56	4.43	5.70	7.25	7.00	8.91	7.43	8.71	10.3	11.5	12.3	14.3	15.4	16.5	17.0	18.9	18.9	19.7	21.1
2	4.42	4.33	5.26	5 11	4.93	6.91	9.28	8.53	10.8	8.90	12.1	11.2	12.8	14.3	15.6	16.5	18.8	21.1	22.9	23.3	24.7	25.9	27.7	29 1
2½	7.13	7.16	7.86	7.44	10.1	9 71	12.1	13.2	13.8	13.2	16.3	15.4	17.0	18.7	21.0	22.7	25.1	27.6	30.2	30.9	31.7	34.2	35.4	37.0
3	10.5	10.4	10.3	10.1	13.8	12.6	15.4	16.5	18.1	17.4	20.4	19.3	21.4	24.0	27.1	29.2	32.5	35.7	38.9	39.9	41.8	43.5	45.8	

RECOMMENDED THICKNESSES

Nominal Pipe Size (Inches)	PIPE / UTILITY—STEAM GENERATION												PIPE / PROCESS												PIPE / COMMERCIAL—FULL YEAR OPERATION				PIPE / COMMERCIAL—SEASONAL OPERATION				BLOCK
½ to 4 Iron	1	1	1	1½	1½	1½	2	2½	2½	2½	3		1	1	1	1	1	1	1½	1½	1½	2	2½		1	1	1½	1½	2	1	1	1½	1½	2	Utility—Steam Generation
5	1	1	1	1½	1½	1½	2	2½	2½	2½	3		1	1	1	1	1	1½	1½	1½	1½	2	2½		1	1	1½	2	2	1	1	1½	2	2	1½ 1½ 2 2½ 3 3 3½ 4 4 4½ 4½
6	1	1	1	1½	1½	1½	2	2½	2½	2½	3		1	1	1	1	1	1½	1½	1½	1½	2	2½		1	1	1½	2	2	1	1	1½	2	2	Process
8	1	1	1	2	2	2	2½	3	3	3	3½		1	1	1	1	1	1½	1½	1½	1½	2	2½		1	1	1½	2	2	1	1	1½	2	2	1½ 1½ 1½ 2½ 1½ 2 2 2½ 2½ 3
10	1	1	1	2	2	2	2½	3	3	3	3½		1	1	1	1	1	1½	1½	1½	1½	2	2½		1	1	1½	2	2	1	1	1½	2	2	Commercial—Full Year Operation
12	1	1	1	2	2	2	2½	3	3	3	3½		1	1	1	1	1	1½	1½	1½	1½	2	2½		1	1	1½	2	2	1	1	1½	2	2	1½ 2½ 3½ 4 4½ — — — — — —
14	1	1	1	2	2	2	2½	3	3	3	3½		1	1	1	1	1	1½	1½	1½	1½	2	2½		1	1	1½	2	2	1	1	1½	2	2	Commercial—Seasonal Operation
16	1	1	1	2	2	2	2½	3	3	3	3½		1	1	1	1	1	1½	1½	1½	1½	2	2½		1	1	1½	2	2	1	1	1½	2	2	1 1½ 2 2½ — — — — — —
18	1	1	1	2	2	2	2½	3	3	3	3½		1	1	1	1	1	1½	1½	1½	1½	2	2½		1	1	1½	2	2	1	1	1½	2	2	
20	1	1	1	2	2	2	2½	3	3	3	3½		1	1	1	1	1	1½	1½	1½	1½	2	2½		1	1	1½	2	2	1	1	1½	2	2	
22	1	1	1	2	2	2	2½	3	3	3	3½		1	1	1	1	1	1½	1½	1½	1½	2	2½		1	1	1½	2	2	1	1	1½	2	2	
24	1	1	1	2	2	2	2½	3	3	3	3½		1	1	1	1	1	1½	1½	1½	1½	2	2½		1	1	1½	2	2	1	1	1½	2	2	
26 & up	1	1	1	2	2	2	2½	3	3	3	3½		1	1	1	1	1	1½	1½	1½	1½	2	2½		1	1	1½	2	2	1	1	1½	2	2	

PACKAGING DATA

PIPE SIZE →	½"	¾"	1"	1¼"	1½"	2"	2½"	3"	3½"	4"	4½"	5"	6"	7"	8"	9"	10"	11"	12"	14"	16"	17"	18"	19"	20"	21"	22"	23"	24"	25"	26"	27"	28"	29"	30"	31"	32"	33"	34"	35"	36"	37"	38"	39"	40"	42"	44"	46"	48"
Nominal 1½" Thick	Sections per Cin.	45	45	25	25	21	16	16	15	9	9	8	8	6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Ac Gross Wgt. per Cin. (lbs.)	100	55	75	70	70	70	70	70	65	55	65	55	45	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Cin. Number	201	226	212	212	201	201	202	221	202	202	203	203	203	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Actual O.D. of Covering 1½" Thick	Sections per Cin.	21	21	14	12	12	9	9	8	6	6	6	6	4	4	3	3	3	3	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Ac Gross Wgt. per Cin. (lbs.)	95	95	80	90	90	100	100	90	85	75	75	55	95	55	55	35	60	45	45	25	25	25	30	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Cin. Number	201	228	204	202	202	201	201	202	221	202	202	203	203	226	201	201	206	209	210	202	211	212	213	205	202	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236
Nominal 2" Thick	Sections per Cin.	16	17	15	15	9	9	9	9	6	6	6	6	4	4	3	3	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Actual O.D. of Covering 2" Thick	Sections per Cin.	105	105	105	120	55	63	63	55	45	45	36	42	32	45	45	30	30	30	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
	Ac Gross Wgt. per Cin. (lbs.)	210	210	225	225	225	252	252	225	225	225	225	225	225	225	225	225	225	225	225	225	225	225	225	225	225	225	225	225	225	225	225	225	225	225	225	225	225	225	225	225	225	225	225	225	225	225	225	225
	Cin. Number	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202	202
Nominal 2½" Thick	Sections per Cin.	8	8	8	8	6	6	6	4	4	4	4	4	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Actual O.D. of Covering 2½" Thick	Sections per Cin.	8	8	8	8	6	6	6	4	4	4	4	4	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Ac Gross Wgt. per Cin. (lbs.)	120	115	115	110	105	100	85	90	85	85	85	85	85	90	90	90	90	90	55	55	55	60	60	65	65	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
	Cin. Number	203	203	203	203	203	203	205	205	204	204	204	204	204	204	204	204	204	204	204	204	204	204	204	204	204	204	204	204	204	204	204	204	204	204	204	204	204	204	204	204	204	204	204	204	204	204	204	204

PIPE SIZE →	48"	49"	50"	51"	52"	53"	54"	55"	56"	57"	58"	59"	60"	61"	62"	63"	64"	65"	66"	67"	68"	69"	70"	71"	72"	73"	74"	75"	76"	77"	78"	79"	80"	81"	82"	83"	84"	85"	86"	87"	88"	89"	90"	91"	92"	93"	94"	95"	96"
Nominal 1½" Thick	Segments per Section	9	9	10	10	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20	21	21	22	22	23	23	24	24	25	25	26	26	27	27	28	28	29	29	30	30	31	31	32	32
	Actual O.D. of Covering	18"	18"	19"	19"	20"	21"	21"	22"	23"	23"	24"	24"	25"	25"	26"	26"	27"	27"	28"	28"	29"	29"	30"	30"	31"	31"	32"	32"	33"	33"	34"	34"	35"	35"	36"	36"	37"	37"	38"	38"	39"	39"	40"	40"	41"	41"	42"	42"
Nominal 2" Thick	Segments per Section	9	10	10	11	11	12	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20	21	21	22	23	23	24	24	25	25	26	26	27	27	28	28	29	29	30	30	31	31	32	32	33	33
	Actual O.D. of Covering	22"	23"	24"	25"	26"	27"	28"	29"	30"	31"	32"	33"	34"	35"	36"	37"	38"	39"	40"	41"	42"	43"	44"	45"	46"	47"	48"	49"	50"	51"	52"	53"	54"	55"	56"	57"	58"	59"	60"	61"	62"	63"	64"	65"	66"	67"	68"	69"
Nominal 2½" Thick	Segments per Section	10	10	11	11	12	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20	21	21	22	23	23	24	24	25	25	26	26	27	27	28	28	29	29	30	30	31	31	32	32	33	33	34	34
	Actual O.D. of Covering	26"	27"	28"	29"	30"	31"	32"	33"	34"	35"	36"	37"	38"	39"	40"	41"	42"	43"	44"	45"	46"	47"	48"	49"	50"	51"	52"	53"	54"	55"	56"	57"	58"	59"	60"	61"	62"	63"	64"	65"	66"	67"	68"	69"	70"	71"	72"	73"
Nominal 3" Thick	Segments per Section	10	11	11	12	12	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20	21	21	22	23	24	24	25	25	26	26	27	27	28	28	29	29	30	30	31	31	32	32	33	33	34	34	35	35
	Actual O.D. of Covering	30"	31"	32"	33"	34"	35"	36"	37"	38"	39"	40"	41"	42"	43"	44"	45"	46"	47"	48"	49"	50"	51"	52"	53"	54"	55"	56"	57"	58"	59"	60"	61"	62"	63"	64"	65"	66"	67"	68"	69"	70"	71"	72"	73"	74"	75"	76"	77"

Thickness	½"	¾"	1"	1½"	1½"	2"	2½"	3"	4"
Pieces Per Carton Square Feet	72	60	54	42	36	30	24	18	12.5
	45	40	30	28	24	20	16	12	9

Average Gross Weight of Carton — 85 lbs. All Blocks are packaged in No. 102 Cartons

CUT-ED BLOCKS SEGMENTS

1½" thick 72 per carton / 2" thick 60 per Ctn. / 2½" thick 54 per carton / 3" thick 42 per Ctn. / 3½" thick 36 per Ctn. / 4" thick 30 per Ctn.
All Segments are packaged in No. 102 Cartons

PIPE SIZE →	½"	¾"	¼"	1½"	2"	2½"	3"	3½"	4"	4½"	5"	6"	7"	8"	9"	10"	11"	12"	14"	16"	17"	18"	19"	20"	21"	22"	23"	24"	25"	26"	27"	28"	29"	30"	31"	32"	33"	34"	35"	36"	37"	38"	39"	40"	42"	44"	46"	48"
Sections per Ctn.	45	45	45	45	25	25	25	25	21	16	16	15	9	9	8	8	6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Ac Gross Wgt. per Ctn. (lbs.)	75	74	73	68	60	67	63	70	70	70	70	70	65	55	65	55	45	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Ctn. Number	201	206	201	201	201	201	201	201	202	221	202	202	203	203	203	226	201	201	206	209	210	202	211	212	213	205	202	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235

Heat Loss Data/Ruberoid Pressure Molded Calsilite®

KEY: T—Nominal Insulation Thickness / HL—Heat Loss (BTU/Hr. Ft./Hr., ambient still air at 80°F) / E—Insulation Efficiency / ST—Surface Temperature (for common surface finishes having an emissivity of approximately 0.920

PIPE TEMP. →	200 F				400 F				600 F				800 F				1000 F				1200 F			
PIPE SIZE ↓	T	HL	E	ST	T	HL	E	ST	T	HL	E	ST	T	HL	E	ST	T	HL	E	ST	T	HL	E	ST
½	1	15.7	77.6	85	1	47.9	82.5	120	1	87.5	86.0	148	1	135	86.7	173	1½	159	92.2	162	1½	291	93.5	181
	1½	13.4	80.9	89	1½	40.6	85.2	905	1½	73.9	88.9	128	2	111	91.5	125	2½	119	94.7	172	2½	250	95.2	122
	2	11.5	83.5	87	2	34.9	87.3	98	2½	55.5	91.4	108	2½	84.9	92.9	101	3	102	96.5	115	3	148	95.5	125
¾	1	19.0	77.7	98	1	58.0	82.8	127	1	106	86.2	158	1	164	88.8	189	1½	179	92.9	170	1½	238	94.1	192
	1½	15.1	82.3	91	1½	45.7	86.5	909	1½	83.2	89.2	128	2	131	92.4	131	2½	133	94.7	127	2½	176	95.7	139
	2	13.2	84.5	86	2	39.9	88.2	101	2½	62.2	91.9	106	2½	95.2	93.5	115	3	115	95.1	145	3	165	95.9	130
1	1	19.8	81.1	95	1	60.6	85.5	121	1	111	88.4	148	1	170	90.7	176	1½	195	93.8	166	1½	256	94.8	186
	1½	16.4	84.4	90	1½	49.7	88.0	908	1½	90.4	90.5	129	2	120	93.4	130	2½	152	95.2	132	2½	204	96.0	148
	2	14.2	86.5	86	2	43.1	89.6	100	2½	70.6	92.6	107	2½	100	94.1	119	3	140	96.5	129	3	186	96.3	135
1¼	1	25.5	80.9	99	1	78.1	84.9	132	1	144	88.0	166	1	222	90.3	187	1½	248	94.5	165	1½	290	95.4	178
	1½	18.4	85.9	91	1½	55.8	89.2	108	1½	102	91.5	129	2	143	93.7	138	2½	177	95.5	139	2½	234	96.3	195
	2	16.9	87.5	88	2	51.2	90.1	104	2½	82.3	93.1	111	2½	126	94.5	125	3	162	96.9	129	3	214	96.6	142
1½	1	28.0	82.3	88	1	79.4	86.4	127	1	146	89.3	157	1	224	91.4	187	1½	248	94.5	178	1½	329	95.5	200
	1½	20.8	85.9	92	1½	63.1	89.2	112	1½	115	91.5	132	2	148	94.4	129	2½	177	96.1	134	2½	234	96.8	148
	2	18.6	88.8	87	2	59.1	91.4	100	2½	82.4	93.8	107	2½	127	95.2	129	3	163	96.4	124	3	268	97.1	138
2	1	29.9	83.4	98	1	91.3	87.3	127	1	167	90.0	150	1	254	92.0	165	1½	278	95.0	178	2	341	96.5	173
	1½	23.3	87.1	92	1½	70.1	90.7	112	1½	129	92.3	133	2	168	93.8	137	2½	208	96.3	140	3	251	97.2	143
	2	19.8	89.1	89	2	68.0	91.7	103	2½	88.3	94.7	106	2½	149	95.4	126	3	190	96.6	130	3½	232	97.6	134
2½	1	34.4	84.3	98	1	105	87.6	129	1	193	90.4	160	1½	205	94.7	167	1½	287	95.7	168	2	329	97.0	187
	1½	26.2	88.8	98	1½	73.2	91.5	908	2	136	94.2	117	2½	159	95.9	123	2½	222	96.7	137	3½	242	97.7	132
	2	21.0	90.3	88	2½	57.0	93.4	98	3	83.7	95.3	105	3	145	96.2	126	3	203	97.0	129	4	232	97.9	138
3	1	40.7	84.2	99	1	125	88.0	131	1	229	90.5	184	1½	264	94.3	162	1½	371	95.4	186	2	405	96.9	183
	1½	31.0	88.0	93	1½	94.7	90.9	115	2	144	94.1	124	2½	192	95.9	131	3	242	96.8	136	3½	290	97.8	139
	2	26.0	89.9	90	2½	68.9	93.3	101	3½	103	95.8	104	2½	157	96.8	105	4	204	97.5	131	4½	253	98.1	126
3½	1	38.4	86.8	96	1	118	90.0	122	1½	172	93.7	131	1½	261	95.0	153	2	314	96.6	156	2½	367	97.5	158
	1½	31.0	89.9	91	1½	84.1	92.0	111	2	147	94.7	129	2	224	95.8	138	3	248	97.3	132	4	302	98.1	178
	2	26.5	90.9	89	2	80.1	93.1	104	2½	129	95.3	123	3	177	96.7	118	3½	228	97.5	125	5	291	98.3	126
4	1	48.6	85.0	99	1	150	88.6	132	1½	208	91.7	140	1½	319	94.6	165	2	369	96.1	167	2½	422	97.5	181
	1½	37.4	88.5	94	1½	114	91.3	116	2	132	94.4	126	2½	227	96.2	133	3	288	97.3	136	4	313	98.1	138
	2	31.8	90.5	90	2	91.9	92.8	107	2½	128	95.1	105	3	280	96.9	124	3½	256	97.5	130	4½	288	98.3	130
4½	1	45.8	87.3	96	1	140	90.3	123	1½	203	94.0	132	1½	311	95.3	156	2	364	96.6	159	2½	430	97.7	166
	1½	36.6	89.8	92	1½	112	92.3	112	2	171	95.0	127	2½	227	96.8	129	3	286	97.5	135	4	347	98.3	138
	2	31.8	91.4	89	2½	93.3	93.9	100	3½	173	96.4	104	3	295	96.9	121	3½	262	97.7	129	5	296	98.4	125
5	1	59.3	85.0	100	1	182	88.6	134	1½	249	93.4	143	1½	382	94.8	169	2	436	96.8	170	2½	484	97.6	178
	1½	44.7	88.7	94	1½	136	91.5	118	2½	171	95.5	118	2½	262	96.4	135	3½	295	97.7	130	4	353	98.3	136
	2	38.6	90.8	91	2½	93.9	94.1	102	3½	138	96.3	107	3	233	96.8	126	4	267	97.9	126	5	338	98.5	125
6	1	70.4	84.9	101	1	216	88.5	136	1½	291	93.4	145	2	352	95.9	150	2½	421	97.2	155	2½	554	97.7	179
	1½	52.2	88.6	95	2	136	93.3	108	2½	196	95.6	126	2½	301	96.5	137	3½	327	97.8	133	4	398	98.4	139
	2	45.4	91.1	90	2½	99.2	95.0	100	4	160	96.8	104	3	265	96.9	118	4	301	98.0	128	5	344	98.6	127
7	1½	56.9	89.3	98	1½	174	91.9	149	1½	287	93.6	144	2	294	96.0	154	2½	409	97.3	157	2½	522	97.8	175
	2	46.3	91.3	91	2	141	93.5	110	2½	219	95.7	127	2½	335	96.6	138	3½	361	97.9	134	4	436	98.4	140
	2½	39.5	92.6	88	3	100	95.2	99	4	155	97.0	104	3	226	97.1	122	4	331	98.1	128	5	390	98.7	129
8	1½	63.2	89.6	95	1½	193	92.1	159	1½	352	93.4	145	2	435	96.1	152	2½	498	97.4	155	3	582	98.2	168
	2	51.2	91.4	91	2	156	93.6	110	2½	232	95.9	130	3	264	97.2	128	3½	395	98.0	135	4½	443	98.8	135
	2½	42.1	92.9	89	3	133	95.3	100	4	169	97.1	105	3½	283	97.5	122	4	351	98.1	129	5	443	98.7	130
9	1½	69.4	89.5	95	1½	212	92.3	170	1½	382	93.9	145	2	455	96.3	148	2½	544	97.5	166	3	633	98.2	161
	2	55.6	91.5	90	2	169	93.8	109	2½	253	96.0	126	3	293	97.2	129	3½	429	98.0	138	4½	482	98.8	138
	2½	45.9	93.0	89	3	121	95.4	100	4	183	97.1	105	3½	307	97.5	122	4	382	98.2	130	5	482	98.7	130
10	1½	74.9	89.9	95	1½	228	92.4	179	2	331	93.3	132	2½	432	96.9	140	2½	606	97.5	159	3½	686	98.4	143
	2	60.0	91.6	91	2	183	93.9	110	3	247	96.5	115	3	278	97.1	131	3½	472	98.0	138	4½	524	98.7	132
	2½	51.8	93.0	89	3	136	95.6	101	4	200	97.3	107	3½	336	97.6	124	4	430	98.2	131	5	487	98.8	130
12	1½	87.3	88.8	95	1½	266	92.4	178	2	369	93.3	132	2½	503	96.9	141	2½	764	97.5	161	3½	721	98.5	154
	2	70.1	91.8	92	2	214	93.9	111	3	285	96.6	116	3	437	97.3	132	4	493	98.3	133	4½	595	98.7	140
	2½	59.3	93.1	90	3½	168	96.0	98	4½	230	97.5	103	3½	389	97.6	125	4½	490	98.4	127	5	552	98.8	126
14	1½	102	89.2	96	1½	306	92.9	183	2	414	93.5	135	2½	566	96.8	145	3	684	97.5	152	3½	800	98.4	159
	2	80.1	92.1	92	2	244	93.9	113	3	319	96.5	118	3½	431	97.4	128	4	541	98.3	135	4½	657	98.7	142
	2½	67.4	93.3	90	3½	190	96.1	99	4½	260	97.5	104	4	495	97.8	122	4½	595	98.4	129	5	606	98.8	128
16	1½	115			2	275	93.9	121	3	360	96.5	121	3½	486	96.9	145	3	765	97.6	153	3½	893	98.5	168
					2½	274	94.0	114	3½	403	97.0	113	4	547	97.6	128	4	608	98.3	136	4½	731	98.7	164
					3	215	96.2	115	4	457	97.6	118	4½	552	98.0	129	5	672	98.6	130	5	752	98.8	135
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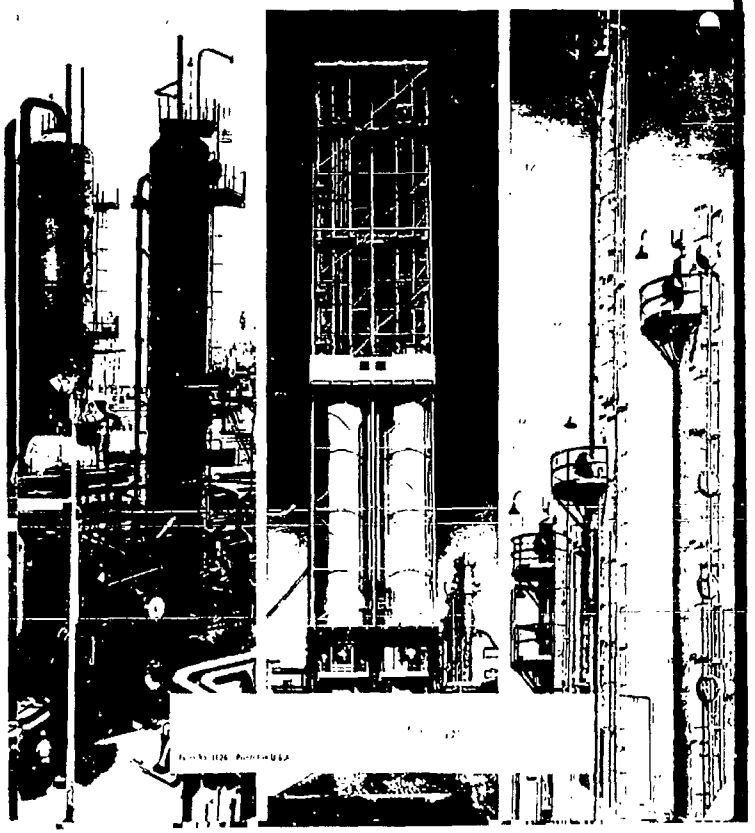
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