



MILL STOCK at SHELBY, OHIO

Mechanical Seamless
Steel Tubing

JANUARY, 1948

THE OHIO SEAMLESS TUBE CO.

Plant and Main Office - Shelby, Ohio

Manufacturers of

Seamless and Electric-Weld Steel Tubing

Printed in U. S. A.

From THE OHIO SEAMLESS TUBE CO.

Shelby, Ohio

RETURN POSTAGE GUARANTEED

January Stock List (1948) Seamless Steel Tubing ANT16148

To



L. A. Wilson, Eng. Works
Box 7
~~Enterprise, Utah~~

Wilson



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SALES OFFICES

CHICAGO 6, ILLINOIS
Civic Opera Bldg., (Room 1418)
20 N Wacker Drive Telephone - State 7966

CLEVELAND 14, OHIO
1328 Citizens' Bldg. Telephone Main 2153

DAYTON 6, OHIO
1517 East 3rd St. Telephone - Fulton 9640

DETROIT 2, MICHIGAN
2857 E. Grand Blvd. Telephone - Madison 5195

HOUSTON 2, TEXAS
P O. Box 981 Telephone Fairfax 9717

KANSAS CITY 6, MISSOURI
801 Oak St. Tel.: Victor 0266

LOS ANGELES, CALIFORNIA
(Beverly Hills)
170 So. Beverly Drive Tele. - Crestview 6-7614

LOUISVILLE 2, KENTUCKY
321 Citizens' Bldg. Telephone - Wabash 3250

MOLINE, ILLINOIS
309½ - 16th St. Telephone - 7700

NEW YORK 17, NEW YORK
70 E. 45th St. Telephone Murray Hill 6-3689

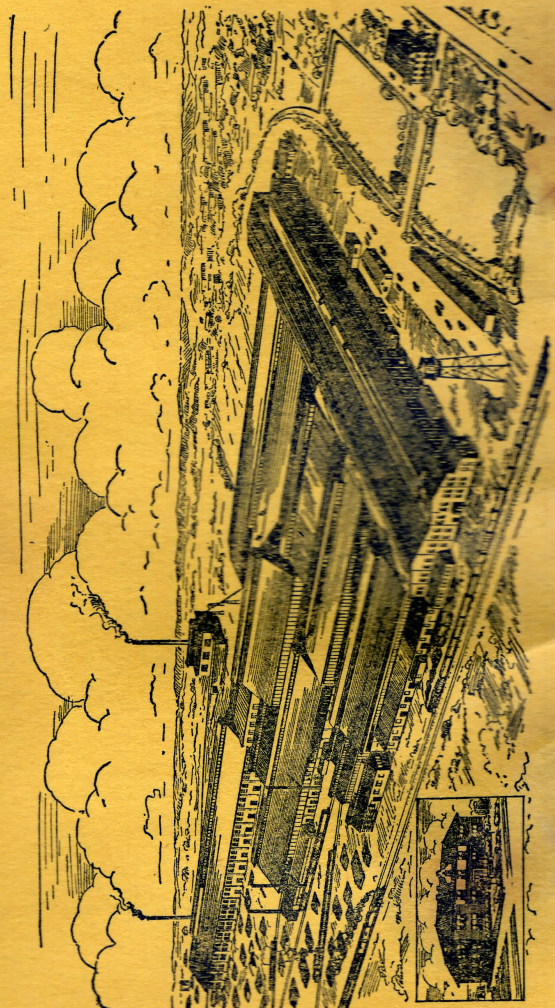
PHILADELPHIA 2, PENNSYLVANIA
Packard Bldg. (Room 1413) 15th & Chestnut Sts.

SEATTLE 4, WASHINGTON
3205 Smith Tower Telephone Seneca 5393

ST. LOUIS 6, MISSOURI
1230 N Main St. Telephone Garfield 2440

SYRACUSE 4, NEW YORK
501 Roberts Ave. Telephone - 5-5301

CANADA
Railway & Power Engineering Corp., Ltd



NOTE: Stock Represents 5-22 ft. Random

STOCK SIZES

O.D.	Ga.	Wall Dec.	Ft.	O.D.	Ga.	Wall Dec.	Ft.	
SAE .1010 CARBON								
$\frac{7}{32}$	.045	.045	700*	$\frac{7}{16}$	18	.049	450*
	.047	.047	1,025*		$\frac{3}{8}$.039	.039	2,589*
	18	.048	360			.070	.070	240*
$\frac{1}{4}$	22	.028	1,080	.494	15	.072	3,975**	
	21	.032	430*		$\frac{1}{2}$	20	.035	328*
	20	.035	2,741*			18	.048	126**
	17	.058	14,340*			18	.049	480**
	16	.065	361*			18	.049	600*
16	.065	860**	16	.065		225*		
$\frac{17}{64}$	.039	.039	675*	16	.065	48**	
	$\frac{5}{16}$	21	.032	195	13	.095	1,280**	
21		.032	504**	12	.109	4,400**		
20		.035	1,570*	11	.120	45**		
20		.035	356**	$\frac{3}{8}$	20	.035	670*	
16		.065	1,850*		.039	.039	300	
$\frac{11}{32}$	18	.049	1,040*	.534	.050	.050	64*	
	16	.065	195*		.054	.054	414*	
$\frac{23}{64}$	21	.032	770	$\frac{3}{8}$	.106	.106	152
	$\frac{3}{8}$	21	.032		1,200**	12	.109	625*
20		.035	3,310	.110	.110	40*		
16		.065	5,000*	.540	18	.049	1,070*	
15		.072	92*		11	.120	850*	
$\frac{25}{64}$	.071	.071	800*	$\frac{1}{2}$	.0	.022	1,500**
	.101	.101	2,401**		18	.049	260*	
	.102	.102	1,822**		16	.065	2,500**	
$\frac{13}{32}$	17	.058	640		14	.83	161*	
	16	.065	42*	$\frac{5}{8}$	20	.035	239	
$\frac{27}{64}$	.055	.055	215*		19	.042	220**
	.055	.055	210**		19	.042	2,200	
				18	.049	17*		

* Soft Annealed

** Unannealed

O.D.	Ga.	Wall Dec.	Ft.	O.D.	Ga.	Wall Dec.	Ft.
5/8	17	.058	43,800	.755	20	.035	790*
	16	.065	145	$\frac{49}{64}$	.039	.039	650*
	13	.095	349**	.821	22	.028	3,213*
.635	18	.049	1,225	.828	15	.072	103*
				.840	18	.049	350*
$\frac{41}{64}$	20	.035	450*	$\frac{7}{8}$	11	.120	42
	20	.035	320**	.925	23	.025	4,500
$\frac{21}{32}$	13	.095	685	1	18	.049	637*
.665	.106	.106	367*		16	.065	410*
.668	.13	.095	448*		16	.065	550**
.670	.148	.148	24*		.070	.070	117*
.675	13	.095	816*		15	.072	12*
	11	.120	232*		14	.083	101*
	$\frac{1}{8}$	.125	300		13	.095	77*
.678	.089	.089	75*		12	.109	3,050*
					9	.148	875*
$\frac{11}{16}$	13	.095	500**	1.033	.132	.132	195
	$\frac{9}{64}$	.141	465	1.050	16	.015	740**
$\frac{23}{32}$	16	.065	2,750*		13	.095	160*
					.113	.113	25*
.746	.22	.028	750*	$1\frac{1}{8}$	9	.148	13*
					8	.165	34*
.747	11	.120	142**	1.078	16	.065	270**
$\frac{3}{4}$	22	.028	2,915	1.115	17	.058	315**
	20	.035	14,000**	$1\frac{1}{8}$	20	.035	205**
	20	.035	905*		18	.049	137**
	20	.035	181	$1\frac{9}{64}$	.055	.055	69
	19	.042	3,000*	$1\frac{1}{4}$	20	.035	180*
	18	.049	102*		14	.083	110*
	16	.065	2,810*		13	.095	173**
	15	.072	113*		.140	.140	24*
	14	.083	4,310*		9	.148	236*
	13	.095	3,550*				
	11	.120	320*				
	$\frac{3}{16}$	.187	117*				

* Soft Annealed

** Unannealed

O.D.	Ga.	Wall Dec.	Ft.	O.D.	Ga.	Wall Dec.	Ft.
1.310	.108	.108	70*	2.480	$\frac{1}{8}$	.125	138*
$1\frac{5}{16}$	$\frac{1}{4}$	.250	225	2 $\frac{1}{2}$	22	.028	155**
$1\frac{11}{32}$	7	.180	102*		$\frac{1}{8}$	.125	9*
1 $\frac{3}{8}$	14	.083	115*		$\frac{3}{16}$	.187	320**
$1\frac{7}{16}$	$\frac{1}{8}$	.125	8*		.238	.238	15
$1\frac{1}{2}$	18	.049	340*		$\frac{9}{32}$	.281	110
	16	.065	110*	2.580	.132	.132	545*
	8	.165	87*	2 $\frac{5}{8}$	16	.065	45*
	7	.180	125	2.640	$\frac{11}{32}$	.343	25
	$\frac{5}{32}$	.156	16*	2 $\frac{3}{4}$	$\frac{5}{32}$	.156	165
	.240	.240	47*		$\frac{11}{32}$	.343	36
1.598	$\frac{1}{8}$	.125	22*	2.825	.132	.132	678*
1 $\frac{5}{8}$	18	.049	225*	2 $1\frac{1}{8}$	11	.120	55*
1.634	.106	.106	280*	2.850	.700	.700	40**
1.640	$\frac{9}{64}$	.140	102*	2 $\frac{7}{8}$	12	.109	10*
$1\frac{11}{16}$	.180	.180	35*		$\frac{3}{16}$	.187	16
1.765	$\frac{9}{32}$	.281	75		.244	.244	35
1.870	.106	.106	377*	$\frac{1}{4}$	$\frac{1}{4}$	.250	14**
$1\frac{3}{4}$	$\frac{7}{32}$	.218	47	2 $\frac{7}{8}$	.276	.276	37*
2 $\frac{1}{8}$	11	.120	77*	2.990	$\frac{9}{32}$	.281	16
	$\frac{1}{16}$	.187	135	2 $1\frac{1}{8}$	$\frac{11}{32}$	.531	114**
2.240	16	.065	300*	3	16	.065	453
2 $\frac{1}{4}$	18	.049	210**		7	.180	17
	16	.065	180**		$\frac{3}{4}$	.750	12**
2.280	.060	.060	96	3.018	$\frac{9}{32}$	.281	500
2.334	.106	.106	210*	3.082	.291	.291	29
2.338	.157	.157	74*	3 $\frac{3}{16}$	.323	.323	12
2.456	.138	.138	330*	3 $\frac{3}{32}$	$\frac{9}{64}$	.140	24*

* Soft Annealed

** Unannealed

O.D.	Ga.	Wall Dec.	Ft.	O.D.	Ga.	Wall Dec.	Ft.	
3 $\frac{3}{8}$	$\frac{3}{16}$	.187	36	4 $\frac{1}{2}$	12	.109	11*
					11	.120	12	
3 $\frac{1}{2}$	$\frac{7}{32}$	.218	151		10	.134	126*
3 $\frac{5}{8}$	$\frac{7}{32}$	.218	17*	4 $\frac{25}{32}$	$\frac{39}{64}$	.609	43*
3.772	$\frac{7}{16}$	.437	75	4 $\frac{15}{16}$	8	.165	11*
4.430	11	.120	33*	5 $\frac{13}{16}$	$\frac{21}{32}$	.656	23*
SAE .1015 CARBON								
1 $\frac{1}{4}$	22	.028	325**	.534	.106	.106	270*	
	17	.058	39*					
	16	.065	143*	.535	.099	.099	100	
266	13	.095	82	$\frac{9}{16}$	18	.049	77*	
300	.098	.098	63	$\frac{5}{8}$	13	.095	59*	
$\frac{5}{16}$	17	.058	630		12	.109	5*	
320	.070	.070	176*	.659	12	.109	30*	
328	.052	.052	20	.666	.132	.132	26*	
	13	.095	369		.139	.139	23*	
365	.115	.115	66	.675	$\frac{5}{32}$	.15625	60*
367	12	.109	234	$\frac{3}{4}$	19	.042	1,855*	
381	16	.065	350		$\frac{1}{8}$	.125	17*
$\frac{25}{64}$	.102	.102	175*	.754	16	.065	550
$\frac{7}{16}$	20	.035	367**	$\frac{29}{32}$	$\frac{11}{64}$	.171875	121
$\frac{1}{2}$	16	.065	466*	1.035	$\frac{11}{64}$	.171	65*
	16	.065	280**	1.050	13	.095	76*	
	15	.072	13	1 $\frac{1}{8}$	1	.300	11	
	11	.120	75**	1 $\frac{3}{16}$	$\frac{9}{64}$.055	.055	135*
.515	17	.058	13**	1 $\frac{3}{8}$	16	.065	135*	
.517	.076	.076	19*	1.165	.270	.270	18*	
$\frac{17}{32}$	13	.095	68	1.247	13	.095	115	
.533	.132	.132	1,309*					

* Soft Annealed

** Unannealed

O.D.	Ga.	Wall Dec.	Ft.	O.D.	Ga.	Wall Dec.	Ft.
1 $\frac{1}{4}$	$\frac{5}{16}$	.3125	5**	3	13	.095	12**
					$\frac{3}{4}$	.750	97*
1 $\frac{11}{32}$	7	.180	17	3 $\frac{3}{8}$	12	.109	30
	6	.203	13*	3 $\frac{1}{16}$	6	.203	173
1 $\frac{3}{8}$	.215	.215	107*	3 $\frac{1}{8}$	14	.083	16
1.385	21	.032	8*	3 $\frac{3}{16}$	$\frac{3}{4}$	.750	148
1.640	$\frac{9}{64}$	.140625	185*	3.243	$\frac{5}{16}$	.3125	14*
2 $\frac{1}{16}$	.274	.274	102**	3 $\frac{1}{4}$	17	.058	60**
2.218	13	.095	112*	3.440	.132	.132	107*
2.270	$\frac{5}{32}$	.15625	60	3 $\frac{9}{16}$	$\frac{5}{16}$	.312	9*
2.280	.106	.106	18*	3 $\frac{11}{16}$	$\frac{7}{32}$	.218	9
2.338	.132	.132	116*	3.968	.163	.163	29
2.367	.336	.336	8	4 $\frac{3}{8}$	16	.065	31
2 $\frac{1}{2}$	$\frac{5}{32}$	.15625	22	4.430	19	.134	150*
2 $\frac{3}{4}$	.594	.594	94	4 $\frac{23}{32}$	$\frac{39}{64}$	.609	30*
2 $\frac{13}{16}$	$\frac{7}{32}$	.21875	5*	4.930	.160	.160	8*
2.825	13	.095	108*	4.930	.247	.247	110*
2 $\frac{7}{8}$	18	.049	72*				
2 $\frac{15}{16}$	16	.065	61**				
1016 S R Q (CARBORIZING QUALITY)							
.955	9	.148	400**	1.333	.271	.271	900**
1.020	11	.120	490**	1 $\frac{11}{16}$	6	.203	420**
1.129	$\frac{3}{16}$	.187	210**	1 $\frac{3}{4}$	6	.203	80**
1.317	$\frac{3}{16}$	.187	425**	3 $\frac{3}{4}$	$\frac{9}{32}$	.281	24
1.319	.192	.192	1,000**				

* Soft Annealed

** Unannealed

O.D.	Ga.	Wall Dec.	Ft.	O.D.	Ga.	Wall Dec.	Ft.	O.D.	Ga.	Wall Dec.	Ft.	O.D.	Ga.	Wall Dec.	Ft.	
.15/.25 CARBON (SAE 1020)																
$\frac{5}{32}$	21	.032	800**	$\frac{3}{8}$	18	.049	1,070	$\frac{9}{16}$	14	.083	1,000**	$\frac{3}{4}$	$\frac{1}{8}$	.125	50*
$\frac{1}{4}$	23	.025	400**		18	.049	2,110**		13	.095	1,036*		$\frac{1}{16}$	.171	185**
	22	.028	1,400**		17	.058	95	$\frac{5}{8}$	21	.032	54*	.765	$\frac{1}{4}$	.250	128
	17	.058	861**		16	.065	1,270**		18	.049	40**	$\frac{2}{3}$	16	.065	375**	
	16	.065	500*		16	.065	586*		16	.065	585	.783	.054	.054	835**	
$\frac{1}{2}$	.039	.039	470**	.405	.068	.068	220*		13	.095	89	$\frac{1}{16}$	16	.065	132*
.266	18	.048	690*	.411	16	.065	460**		13	.095	67*		9	.148	468	
	18	.049	675**	$\frac{7}{16}$	12	.109	256		8	.165	77		$\frac{7}{32}$	.218	850**
$\frac{9}{32}$	18	.049	1,040		$\frac{1}{8}$	.125	1,100	.630	.066	.066	218	.840	.13	.095	120**
	12	.109	420**					$\frac{2}{3}$	$\frac{5}{32}$	.156	100		12	.109	175*
	12	.109	700	.494	16	.065	305*		.670	9	.148	150*		.147	.147	625**
.295	.060	.060	780	$\frac{1}{2}$	22	.028	2,568		.675	16	.065	500	.860	.060	.060	780*
.310	17	.058	375		22	.028	315**			.091	.091	426*	.873	.196	.196	120
					20	.035	650**			11	.120	315*				
$\frac{5}{16}$	24	.022	70**		19	.042	447			$\frac{1}{8}$.125	189	$\frac{7}{8}$	21	.032	290*
	21	.032	2,190**		19	.042	450**			.150	.150	160*		17	.058	600**
$\frac{5}{16}$	20	.035	530**	$\frac{1}{2}$	18	.049	1,200**	.680	.129	.129	1,577**		16	.065	371	
	19	.042	1,080**		17	.058	143		$\frac{1}{16}$	$\frac{5}{64}$.078	176		.117	.117	51**
	17	.058	1,800		16	.065	560**			14	.083	287**		11	.120	13
	16	.065	780**		16	.065	1,100*			10	.134	70**		$\frac{5}{32}$.156	82**
	14	.083	915		14	.083	1,200**			9	.148	330**		$\frac{3}{16}$.187	69
	13	.095	3,411**		12	.109	480			$\frac{9}{64}$.140	93		$\frac{1}{4}$.250	146**
.328	13	.095	386		11	.120	120**			$\frac{7}{32}$.219	103	.925	.23	.025	600**
.330	16	.065	390		11	.120	8		.745	.176	.176	21	$\frac{1}{8}$.024	.024	220
.333	16	.065	1,300**		$\frac{1}{8}$.125	484							16	.065	85**
				.540	$\frac{5}{64}$	.078	121	$\frac{3}{4}$	22	.028	2,500**	$\frac{1}{8}$	4	.238	200**
$\frac{1}{2}$	13	.095	90						20	.035	800**					
.354	17	.058	223	.540	.088	.088	52*		20	.035	170	1	22	.028	1,305**	
	.059	.059	797		11	.120	446		18	.049	400**		22	.028	95	
	.059	.059	8,309**		.176	.176	400*		17	.058	323**		19	.042	135**	
.365	.115	.115	480**	.560	.030	.030	480**		16	.065	720**		18	.049	330**	
					.090	.090	175**		14	.083	470**		17	.057	158	
$\frac{3}{8}$	21	.028	1,140**						.087	.087	375**		11	.120	84**	
	.040	.040	132	$\frac{9}{16}$	21	.032	545**		$\frac{1}{8}$	.125	105		$\frac{1}{8}$	.125	20
					16	.065	2,400		$\frac{1}{8}$	.125	445**		$\frac{5}{32}$	.156	200**

* Soft Annealed

** Unannealed

* Soft Annealed

** Unannealed

O.D.	Ga.	Wall Dec.	Ft.	O.D.	Ga.	Wall Dec.	Ft.	O.D.	Ga.	Wall Dec.	Ft.	O.D.	Ga.	Wall Dec.	Ft.	
1	$\frac{3}{16}$	.187	54	$1\frac{5}{16}$	$\frac{1}{4}$	.250	385	$1\frac{5}{8}$	10	.134	85**	$1\frac{7}{8}$	$\frac{3}{16}$	.187	32**	
	$\frac{3}{16}$	.187	150**	1.317	.023	.023	34		$\frac{3}{16}$	.187	45	1.895	13	.095	13*	
1.010	.255	.255	32	$1\frac{1}{4}$	.21	.032	275	1.634	20	.035	23	1.900	.145	.145	80	
1.013	.272	.272	276	1.339	.119	.119	66		.106	.106	32*	1.995	21	.032	32**	
1.018	.11	.120	40	1.365	$\frac{3}{16}$	.187	12	1.640	.216	.216	8,025	2	16	.065	229**	
1.050	16	.065	146*	$1\frac{3}{8}$	22	.028	600**	1.660	$\frac{9}{16}$	.140	76		11	.120	6	
	13	.095	56*		13	.095	110**						11	.120	52**	
	.113	.113	130		12	.109	270**	$1\frac{1}{4}$	20	.035	95		$\frac{7}{32}$	.218	7	
$1\frac{1}{16}$	20	.035	1,175		10	.134	60**	1.672	20	.035	320		$\frac{1}{4}$	.250	529**	
	16	.065	60		$\frac{5}{32}$	.156	41**									
	11	.120	150		.168	.168	6	$1\frac{1}{16}$	14	.083	43	$2\frac{1}{32}$	13	.095	17	
1.118	.185	.185	386		$\frac{3}{16}$	.187	35**		$\frac{5}{32}$	.156	140		$\frac{1}{4}$	.171	153	
					$\frac{7}{32}$	.218	1,011		$\frac{5}{16}$		51		$\frac{1}{4}$	.250	26**	
$1\frac{1}{8}$	19	.042	80**		$\frac{3}{8}$	.218	50**	1.740	11	.120	56**		$2\frac{3}{32}$	$\frac{3}{32}$	.093	70*
	18	.049	200**		.227	.227	185**		1.745	$\frac{1}{4}$	.265	9				
$1\frac{1}{8}$	13	.095	180	$1\frac{7}{8}$	13	.095	16						$2\frac{1}{8}$	$\frac{3}{16}$	.187	220
	$\frac{5}{32}$	.156	43		11	.120	45	$1\frac{3}{4}$	14	.083	240**			.258	.258	40
	7	.180	190**		$\frac{5}{32}$	.156	64		14	.083	200			.281	.281	51
	$\frac{9}{32}$	.281	26		$\frac{5}{16}$				12	.109	27			$\frac{1}{32}$	.343	7
	$\frac{5}{16}$	.314	65	$1\frac{1}{2}$	18	.049	76**		$\frac{1}{8}$	.125	10			$\frac{1}{8}$	.375	13
					16	.065	5		4	.203	30**			$\frac{1}{32}$	.406	60
$1\frac{3}{16}$	$\frac{5}{32}$	.156	6		13	.095	40**		6	.238	64**			$\frac{1}{32}$	.406	130**
					$\frac{5}{32}$	.156	63**		$\frac{1}{4}$	.250	1,470**			$\frac{1}{32}$	.562	84
1.220	.193	.193	90		$\frac{5}{32}$	.156	150		$\frac{1}{2}$	.500	28*			$\frac{9}{16}$	.562	130**
1.248	.298	.298	130		.487	.487	7		$\frac{1}{2}$	.500	30		$2\frac{9}{16}$	13	.095	16
				1.509		.223	135									
$1\frac{1}{4}$	11	.120	356					1.770	.197	.197	99		2.140	.320	.320	175**
	.300	.300	63	$1\frac{9}{16}$	16	.065	300**		1.772	.059	.059	15				
	$\frac{5}{16}$	.312	35**		.086	.086	256						$2\frac{3}{16}$	14	.083	65**
					$\frac{1}{32}$	.343	6		$1\frac{5}{32}$	$\frac{3}{16}$	.328	64		$\frac{3}{16}$	.187	125
1.260	$\frac{3}{8}$	.375	15*	1.581	.075	.075	150		$1\frac{1}{8}$	$\frac{1}{8}$	.125	120				
$1\frac{9}{32}$	$\frac{1}{4}$	.171	190										$2\frac{1}{4}$	16		18
$1\frac{5}{16}$	.024	.024	790	$1\frac{5}{8}$	20	.035	37**		1.821	.285	.285	46		14	.083	689
	13	.095	105**		18	.049	48		1.855	.401	.401	34**		11	.120	40**
	$\frac{1}{8}$	.125	10		11	.120	153**							$\frac{1}{8}$	.125	115**
	4	.238	60		$\frac{1}{8}$	.125	124		$1\frac{7}{8}$	17	.058	9		8	.165	16
					$\frac{1}{8}$	.125	138*			.148	39			$\frac{3}{16}$	.187	235**

* Soft Annealed

** Unannealed

* Soft Annealed

** Unannealed

O.D.	Ga.	Wall Dec.	Ft.	O.D.	Ga.	Wall Dec.	Ft.
2.280	.060	.060	23**	2 $\frac{1}{16}$	$\frac{9}{32}$	.281	25**
2 $\frac{5}{16}$	14	.083	371**	3	12	.109	15**
2 $\frac{3}{8}$	13	.095	250	$\frac{1}{4}$	$\frac{1}{4}$	.250	32
	$\frac{5}{32}$	.156	526**	$\frac{1}{4}$	.420	.420	9**
	$\frac{1}{32}$	.218	120	$\frac{5}{8}$	.625		13
	$\frac{1}{4}$	.250	104**	3.019	400	400	8*
2.479	16	.065	105**	3.043	.435	.435	12**
2 $\frac{1}{2}$	16	.065	136**	3 $\frac{1}{16}$	.594	.594	26*
	$\frac{3}{16}$	.187	33*	3 $\frac{1}{8}$	$\frac{5}{8}$	.156	28
	$\frac{1}{4}$	.250	219	$\frac{1}{4}$	.250	.500	48
	$\frac{9}{32}$	.281	34	$\frac{1}{2}$	.500	.781	12
	$\frac{3}{16}$	.312	17**	$\frac{2}{32}$	.781		108**
	$\frac{1}{16}$	.437	15**	3 $\frac{9}{64}$	4	.238	19**
	$\frac{1}{2}$	.500	36**	3.150	14	.083	39
	$\frac{1}{16}$	.687	35**	3 $\frac{1}{8}$	$\frac{1}{8}$	.125	7
2 $\frac{9}{16}$	13	.095	36	3 $\frac{1}{8}$	$\frac{1}{8}$	.356	21
2 $\frac{5}{8}$	16	.065	95*	$\frac{1}{16}$	.687		34
	11	.120	20	3.230	$\frac{1}{32}$	.406	14
	$\frac{1}{16}$	.437	54**	3 $\frac{1}{4}$	11	.120	42**
2.642	19	.042	27	$\frac{1}{8}$	.125	.125	359**
2 $\frac{1}{8}$	$\frac{1}{8}$	.125	65	3 $\frac{1}{4}$	$\frac{1}{8}$	.218	24
	$\frac{9}{32}$	.281	32	$\frac{1}{4}$	.250	.406	102
2 $\frac{3}{4}$	$\frac{1}{8}$	.125	185**	$\frac{1}{4}$	.406	.468	17
	$\frac{9}{64}$	.140	220**	3.268	$\frac{9}{32}$	.281	63
2.764	.132	.132	95	3 $\frac{9}{32}$	$\frac{5}{64}$	.078	15
2 $\frac{1}{4}$	$\frac{1}{8}$	.125	19*	$\frac{9}{64}$	.140		34*
	$\frac{1}{2}$	.500	10	3 $\frac{5}{16}$	$\frac{9}{16}$	.562	6
2 $\frac{3}{8}$	4	.238	107	3.335	$\frac{9}{64}$	.453	262*
2 $\frac{7}{8}$	$\frac{3}{16}$	.187	5*				
	$\frac{1}{4}$	.250	102				

* Soft Annealed

** Unannealed

O.D.	Ga.	Wall Dec.	Ft.	O.D.	Ga.	Wall Dec.	Ft.
3 $\frac{3}{8}$	11	.120	22	4 $\frac{3}{4}$	.352	.352	65
	$\frac{1}{8}$	.125	25	4 $\frac{1}{2}$	$\frac{3}{16}$	.187	170**
	$\frac{5}{16}$	.312	28**	$\frac{1}{4}$	.237	.237	16
	$\frac{3}{8}$	.375	550**	$\frac{1}{4}$	.250		154**
	$\frac{1}{16}$	.437	18	$\frac{3}{32}$	.515		35**
3.422	.396	.396	25	4 $\frac{5}{8}$	$\frac{3}{8}$	.375	13
3 $\frac{7}{16}$	.394	.394	178**	$\frac{1}{8}$	.680	.680	54**
	$\frac{1}{32}$	.406	6**	4 $\frac{3}{4}$	10	.134	8
3.490	.525	.525	28	$\frac{5}{8}$	.312		13
3 $\frac{1}{2}$	13	.095	10	$\frac{1}{2}$	.500		53**
	9	.148	131	4.844	.446	.446	12**
	9	.148	112**	5	$\frac{1}{4}$	.250	6
	$\frac{3}{16}$	.187	165	$\frac{9}{32}$	.281		8
	$\frac{5}{16}$	.312	460*	5.093	.641	.641	15
3.602	$\frac{9}{32}$	.281	57**	5 $\frac{1}{8}$	.700	.700	14
3 $\frac{5}{8}$	$\frac{3}{16}$	.187	38	5 $\frac{1}{4}$	$\frac{3}{8}$	.375	20**
	$\frac{9}{32}$	.281	8	5 $\frac{1}{2}$	$\frac{3}{16}$	.546	32**
	$\frac{3}{8}$	.375	17**	5 $\frac{1}{2}$	$\frac{1}{4}$	.250	230
3 $\frac{3}{4}$	$\frac{5}{16}$	.312	23	5 $\frac{3}{4}$	$\frac{1}{4}$	.250	14
3.900	.325	.325	77	1 $\frac{1}{16}$	$\frac{1}{4}$	.250	158
4	$\frac{3}{16}$	.187	260**	6	$\frac{3}{8}$	.375	65
	.226	.226	19*	6 $\frac{1}{4}$	$\frac{3}{8}$	.375	41
4 $\frac{1}{8}$	.680	.680	104**	6.415	$\frac{5}{16}$	.312	19
4 $\frac{3}{8}$	$\frac{5}{16}$	.312	60	6 $\frac{3}{4}$	$\frac{1}{16}$	.343	12
	$\frac{3}{8}$	.375	40	7	$\frac{1}{2}$	.500	36
	$\frac{1}{2}$	.406	11				
	$\frac{5}{8}$	.625	23**				
4 $\frac{7}{16}$	$\frac{9}{32}$	.281	39				
4.459	.276	.276	50				

.25/.35 CARBON (SAE 1030)

* Soft Annealed

** Unannealed

O.D.	Ga.	Wall Dec.	Ft.	O.D.	Ga.	Wall Dec.	Ft.
.30/.40 CARBON (SAE 1035)							
$\frac{7}{32}$	16	.065	162*	$1\frac{1}{8}$	$\frac{5}{32}$	.156	27
$\frac{5}{16}$	16	.065	1,080	$1\frac{3}{8}$	16	.065	20
$\frac{3}{8}$	11	.120	36	1.890	16	.065	824
$\frac{5}{8}$	$\frac{3}{16}$	.187	71	1.910	.076	.076	16
.665	.177	.177	300*	$2\frac{1}{4}$	.12	.109	23
$\frac{3}{4}$	16	.065	312**		$\frac{11}{64}$	.171	173
	16	.065	997		$\frac{3}{8}$	.375	70*
					$\frac{1}{2}$	.500	95
$\frac{7}{8}$	$\frac{1}{4}$	.250	129	2.296	9	.148	108
.915	.215	.215	245	$2\frac{1}{2}$	$\frac{3}{16}$	.188	77
1	12	.109	119*	2.647	.131	.131	81
$1\frac{1}{8}$	4	.234	190	$2\frac{1}{2}$	$\frac{5}{8}$	.625	36
	$\frac{1}{4}$	.250	72	3	$\frac{7}{8}$	.875	7
1.260	.318	.318	34*	$3\frac{3}{8}$	$\frac{5}{16}$	.312	25
$1\frac{3}{8}$	16	.065	28	3.400	.132	100**	
$1\frac{7}{16}$	9	.148	395	$3\frac{3}{4}$	10	.134	86
$1\frac{7}{8}$	$\frac{5}{32}$	.156	54	4	$\frac{1}{4}$	.250	33
$1\frac{1}{2}$	11	.120	160	4 $\frac{1}{4}$	$\frac{3}{8}$	.375	19*
1.516	.128	.128	100	4 $\frac{5}{8}$	$\frac{5}{16}$	.312	22
$1\frac{5}{8}$	$\frac{3}{16}$	.187	35	.35/.45 CARBON (SAE 1040)			
$\frac{5}{16}$	21	.032	2,550	$1\frac{1}{4}$	$\frac{5}{32}$	.156	220
	20	.035	260	$1\frac{5}{16}$	.138	.138	146
$\frac{1}{2}$	18	.049	30	$1\frac{11}{32}$	$\frac{29}{64}$	.453	21
$\frac{3}{4}$	20	.035	785	$1\frac{5}{8}$	16	.065	125
1	$\frac{7}{32}$	.218	97	$1\frac{11}{16}$	$\frac{29}{64}$	.140	90
	4	.238	37	1.890	16	.065	565

* Soft Annealed

** Unannealed

O.D.	Ga.	Wall Dec.	Ft.	O.D.	Ga.	Wall Dec.	Ft.
$1\frac{15}{16}$	16	.065	350	2.946	.442	.442	189
2.015	.331	.331	31	3	$\frac{5}{32}$	.156	56
$2\frac{1}{4}$	$\frac{3}{32}$	.281	33	$3\frac{1}{8}$	10	.134	43
	$\frac{11}{16}$	.687	5	$3\frac{13}{32}$	.291	.291	20
$2\frac{9}{16}$	$\frac{13}{32}$	.406	9	$3\frac{1}{2}$	$\frac{5}{32}$	.156	350
2.583	.229	.229	7		$\frac{9}{32}$	.281	18
$2\frac{5}{8}$	$\frac{3}{16}$	.187	20	$3\frac{3}{4}$	10	.134	65
	.307	.307	64**	$4\frac{1}{4}$	14	.083	5
$2\frac{13}{16}$	$\frac{1}{4}$	.250	5	$4\frac{1}{2}$	$\frac{1}{8}$	.125	35
$2\frac{21}{32}$	$\frac{31}{64}$	.484	14		$\frac{3}{16}$	.187	11
	.505	.505	12	$5\frac{1}{8}$	$\frac{3}{16}$	.187	340
$2\frac{7}{8}$	$\frac{9}{32}$	.281	14	$5\frac{1}{4}$	.230	.230	286
	$\frac{1}{2}$	.500	382				
	.938	.938	55				

**TYPE "EE" STEEL .35/.45 CARBON
MANGANESE .70/.90**

.360	21	.032	1,568	$1\frac{1}{8}$	13	.095	19
$\frac{7}{16}$	21	.032	16		$\frac{1}{4}$	.250	28**
					$\frac{1}{4}$	.250	9
$\frac{5}{8}$	22	.028	2,642	$1\frac{1}{4}$	21	.032	98
	20	.035	266		.318	.318	110
	.080	.080	374	1.260	.318	.318	92
$\frac{3}{4}$	16	.065	12		.318	.318	168*
	.139	.139	76	$1\frac{5}{16}$	$\frac{13}{32}$	.406	32
	$\frac{7}{32}$	.218	13		$\frac{7}{16}$	.437	31
$\frac{13}{16}$	$\frac{3}{16}$	.187	96**	$1\frac{11}{32}$	$\frac{29}{64}$	.453	149
1	20	.035	10	$1\frac{3}{8}$	17	.058	7
	16	.065	28		$\frac{1}{2}$	.500	12
	$\frac{3}{16}$	.187	14	$1\frac{9}{16}$	21	.032	13
	$\frac{1}{4}$	.250	65	$1\frac{3}{4}$	$\frac{3}{16}$	.187	80
	$\frac{5}{16}$	.312	195				

* Soft Annealed

** Unannealed

O.D.	Ga.	Wall Dec.	Ft.	O.D.	Ga.	Wall Dec.	Ft.
3 1/2	3 1/4	.578	9	4 3/8	.311	.311	69*
3 5/8	3 1/2	.718	15	4 1/4	1. .437	1.0000	61
.45/.55 CARBON (SAE 1050)							
7/8	16	.065	40*	3	1/2	.500	10
1	.166	.166	190				
.55/.65 CARBON (SAE 1060)							
1	12	.109	95				
.60/.70 CARBON (SAE 1065)							
2 3/8	3/8	.375	46				
.70/.80 CARBON (SAE 1075)							
5/8	15	.072	22	1.540	9/64	.140	64
7/8	1 1/8	.187	48	2 1/2	5/16	.312	104**
MOLY. 1 1/2% NI. .10/.20 CARBON (SAE 4615)							
1 1/2	1/8	.125	63	2.451	.199	.199	210**
5/8	18	.049	98*	2.462	6	.203	358**
3/4	12	.109	52	2 1/2	1 1/4	.265	29*
	3 1/2	.218	9		1 1/4	.265	31
.997	.164	.164	10**	2.505	.271	.271	9**
1 1/8	9/32	.281	10	2.509	.348	.348	80
1 1/16	11	.120	33		.358	.358	5
1 3/8	1/4	.250	167**	2 1/2	.211	.211	91
1 3/4	3/16	.187	12		.391	.391	42
1 1 1/8	5/32	.156	36		.405	.405	14
2 3/32	.327	.327	15	2 5/8	1/4	.250	19
2.100	.256	.256	22**	2 1 1/8	3/8	.375	12
				2.780	.390	.390	145

* Soft Annealed

** Unannealed

O.D.	Ga.	Wall Dec.	Ft.	O.D.	Ga.	Wall Dec.	Ft.
2.900	.300	.300	27	4.595	.579	.579	17
2 9/16	.547	.547	14**	4 5/8	5/16	.312	85
3	14	.083	675**	4 3/4	1 1/32	.531	92
3 1/16	13	.095	144	4.835	.583	.583	22
3 5/16	2 1/32	.656	12	5 1/8	1 1/2	.531	11
3 1/2	3/16	.187	18	5.200	.590	.590	7
	1 1/4	.265	27**		1/4	.250	9
	1 1/4	.265	13		3/8	.281	13
	5/16	.312	34		3/2	.281	13
4	1 1/2	.343	14	6.424	.380	.380	10
4 7/32	1 1/4	.265	15	6 1 1/2	.575	.575	5
4 3/8	1 3/8	.406	15				
MOLY. 1 1/2% NI. .15/.25 CARBON (SAE 4620)							
1 1/4	1/8	.125	79	3.407	2	.284	28**
2 1/8	3/8	.375	190**	3 1/2	9/16	.562	14**
2 5/16	1/4	.125	10	3 7/8	5/8	.875	20**
2.509	.348	.348	7	4.437	.423	.423	36*
2 1 1/8	7/16		7	5.391	.524		100
2 3/4	5/8	.625	24				
NI. MOLY. .15/.25 CARBON (RBEC 4720)							
1	1/4	.250	218	2.540	.465	.465	77
1.855	.401	.401	49	2 5/8	1/4	.250	6
2.184	.492	.492	11	5 1 1/2	.541	.541	5
1 1/2% NI. .12/.20 CARBON (SAE 3120)							
3/16	18	.049	58	1 1/4	17	.058	80
1/4	16	.065	40		16	.065	10
1.010	.255	.255	96	1.385	.130	.130	77

* Soft Annealed

** Unannealed

The Ohio Seamless Tube Co.

O.D.	Ga.	Wall Dec.	Ft.	O.D.	Ga.	Wall Dec.	Ft.
1½% NI .25/.35 CARBON (SAE 3130)							
$\frac{5}{16}$	13	.095	144*	$1\frac{7}{8}$	$\frac{7}{32}$	.218	37
$\frac{3}{4}$	10	.134	415**		$\frac{11}{32}$	.343	15
$\frac{7}{8}$	11	.120	42	$2\frac{1}{2}$	$\frac{1}{4}$	.250	21
.895	.135	.135	21				
1½% NI .30/.40 CARBON (SAE 3135)							
$1\frac{1}{8}$	14	.083	192*	$2\frac{1}{4}$	$\frac{5}{32}$	.156	54
$1\frac{1}{2}$	14	.083	24*	$3\frac{1}{4}$	$\frac{3}{32}$	.718	59
1½% NI .35/.45 CARBON (SAE 3140)							
$\frac{3}{8}$	.101	.101	90*	$2\frac{1}{2}$	$\frac{1}{4}$	.250	13*
					$\frac{5}{16}$	.312	7
$\frac{1}{2}$	6	.203	50	$2\frac{11}{16}$	$\frac{1}{4}$	.250	17
					$\frac{5}{16}$	.312	21
1	.210	.210	33	3	$\frac{1}{4}$	.083	18**
	$\frac{4}{8}$	.238	8*		$\frac{5}{16}$	.312	8
$1\frac{3}{8}$	$\frac{3}{8}$	.375	7	$3\frac{1}{8}$	$\frac{11}{32}$	.343	45
$1\frac{3}{4}$	$\frac{1}{2}$	.500	15	$4\frac{1}{2}$	$\frac{1}{4}$	.250	16
$1\frac{13}{16}$	$\frac{3}{16}$	.187	75	$4\frac{9}{32}$	.235	.235	227
				5	$\frac{3}{4}$	.750	19
$2\frac{3}{8}$	12	.109	45	$5\frac{1}{2}$	$\frac{3}{16}$	.187	8
	11	.120	48	$6\frac{1}{4}$	$\frac{5}{16}$	.312	76
					$\frac{13}{32}$	.406	11
1½% NI .45/.55 CARBON (SAE 3150)							
$5\frac{1}{8}$	$\frac{13}{32}$	.593	9				

* Soft Annealed

** Unannealed

Shelby, Ohio

O.D.	Ga.	Wall Dec.	Ft.	O.D.	Ga.	Wall Dec.	Ft.
3½% NI .10/.20 CARBON (SAE 2315)							
$\frac{5}{8}$	18	.049	1,280**	$2\frac{3}{8}$	$\frac{5}{32}$	.156	30
	18	.049	57*	$2\frac{1}{2}$	$\frac{11}{16}$	.687	5
$\frac{3}{4}$	14	.083	1,570**	$2\frac{5}{8}$	$\frac{1}{4}$	.250	21
	14	.083	265*	$2\frac{7}{8}$	$\frac{1}{4}$	.250	28
$\frac{7}{8}$	$\frac{5}{32}$	.156	52	$3\frac{3}{8}$	$\frac{1}{4}$	.250	42
$2\frac{5}{16}$	$\frac{7}{32}$	.218	27	$3\frac{1}{2}$	$\frac{3}{16}$	.187	140
	$\frac{1}{4}$	.250	18				
3½% NI .25/.35 CARBON (SAE 2330)							
$\frac{3}{8}$	18	.049	42	$1\frac{3}{8}$	$\frac{9}{32}$	.281	17
$\frac{1}{2}$	17	.058	66		$\frac{7}{16}$	.437	38
$\frac{11}{16}$	11	.120	10	$1\frac{7}{16}$	18	.049	98
$\frac{3}{4}$	$\frac{5}{32}$	.156	7	$1\frac{3}{4}$	$\frac{1}{8}$	.125	25
$\frac{13}{16}$	12	.109	100	$1\frac{9}{16}$	$\frac{3}{16}$	.187	12
850	9	.148	969*	$1\frac{5}{8}$	$\frac{1}{4}$	.171	16
	.152	.152	80*	$1\frac{11}{16}$	$\frac{1}{4}$	.265	155
$\frac{13}{16}$	$\frac{3}{16}$	.187	5	$2\frac{3}{16}$	$\frac{1}{8}$	.125	135
1	18	.049	65	$2\frac{1}{4}$	$\frac{1}{8}$	.125	20
1.010	.158	.158	276	$2\frac{7}{16}$	$\frac{3}{8}$	.375	429
	.158	.158	287*	$2\frac{1}{2}$	$\frac{3}{8}$	.375	11
	.162	.162	140*	$3\frac{1}{8}$	$\frac{15}{32}$	.468	6
	.167	.167	15*				
	.170	.170	28*				
$1\frac{1}{4}$	$\frac{11}{32}$	.343	60	$3\frac{1}{2}$	13	.095	6
1.270	.416	.416	90				
				3.575	.350	.350	13

* Soft Annealed

** Unannealed

O.D.	Ga.	Wall Dec.	Ft.	O.D.	Ga.	Wall Dec.	Ft.
3.595	.320	.320	14	4	$\frac{9}{16}$	.562	24
3 $\frac{5}{8}$	$\frac{3}{16}$	.187	7	4.226	.145	.145	7
	$\frac{7}{32}$	.218	15	5.345	.387	.387	5
3 $\frac{3}{4}$	$\frac{1}{16}$	.562	6	4 $\frac{1}{2}$	$\frac{19}{32}$	.593	116
3 $\frac{5}{16}$	$\frac{1}{8}$	.125	16	6 $\frac{3}{8}$	$\frac{15}{32}$	.468	13
4	13	.095	26				
3$\frac{1}{2}$% NI. .30/.40 CARBON (SAE 2335)							
5 $\frac{1}{8}$	16	.065	150	1 $\frac{1}{4}$	.117	.117	210
	.082	.082	156	1 $\frac{5}{16}$	$\frac{1}{8}$	.125	440
1 $\frac{1}{8}$	12	.109	201	1 $\frac{5}{8}$	11	.120	76
1	13	.095	351**	1 $\frac{3}{4}$	.123	.123	300
LOW CARBON - LOW CHROME							
.266	13	.095	340*	$\frac{15}{16}$	13	.095	405
$\frac{5}{16}$	13	.095	176	$\frac{15}{16}$	13	.095	675**
.328	13	.095	262	1	18	.049	11,010
$\frac{9}{16}$	14	.083	54**		16	.065	3,072*
.710	$\frac{1}{8}$	.250	12		16	.065	1,785
3 $\frac{1}{4}$	18	.049	480**	1.050	.090	.090	1,750
	15	.072	975**		113	.113	220**
	12	.109	41*	1 $\frac{1}{16}$	12	.109	600*
	$\frac{3}{16}$	.187	4,520**	1 $\frac{1}{8}$	17	.058	10,300**
.767	10	.134	995	1 $\frac{1}{4}$	11	.120	250**
.772	10	.134	506**		$\frac{3}{16}$	.187	250
	.136	.136	19	1 $\frac{3}{8}$	14	.083	950**
.791	.17	.058	345**		10	.134	36**
7 $\frac{1}{8}$	18	.049	2,260	1 $\frac{1}{2}$	16	.065	1,140*
	16	.065	2,463		14	.083	40**
	11	.120	700		9	.148	148
	11	.120	308*	1 $\frac{5}{8}$	11	.120	325**
	11	.120	3,750**		10	.134	750**
	$\frac{1}{8}$	.125	150**				

* Soft Annealed

** Unannealed

O.D.	Ga.	Wall Dec.	Ft.	O.D.	Ga.	Wall Dec.	Ft.
2	$\frac{11}{16}$	.171	130	2.991	$\frac{5}{32}$	.156	26
2 $\frac{1}{4}$	16	.065	11,000	3	13	.095	90**
	14	.083	150	3 $\frac{1}{2}$	13	.095	160
2 $\frac{3}{8}$	$\frac{5}{32}$	.156	32		11	.120	15**
2 $\frac{1}{2}$	11	.120	65	4.011	$\frac{3}{16}$	.187	201
2 $\frac{3}{4}$	14	.083	350				
MEDIUM CARBON - LOW CHROME							
3 $\frac{1}{4}$	.100	.100	170	1	$\frac{1}{8}$	.125	2,500
7 $\frac{1}{8}$	15	.072	92	1 $\frac{1}{8}$	17	.058	110
	12	.109	92	1 $\frac{5}{16}$	7	.180	700
.545	.275	.275	355	1 $\frac{1}{2}$	$\frac{5}{32}$	.156	42
1	11	.120	33		$\frac{5}{16}$	.312	226
HIGH CARBON - LOW CHROME							
.781	.141	.141	227	.781	.141	.141	770**
$\frac{1}{2}$% CHROME .20 CARBON (SAE 5120)							
1.520	.385	.385	120	4 $\frac{7}{8}$	$\frac{9}{16}$	.562	18
2 $\frac{5}{8}$	$\frac{5}{8}$	.625	17	5 $\frac{1}{2}$	$\frac{3}{4}$	.750	7
3 $\frac{1}{2}$	$\frac{7}{8}$	.562	27				
VAN "A" 1% CHROME, VAN .15, CAR .17/.22 (SAE 6120)							
$\frac{7}{8}$	$\frac{5}{32}$	.156	13*	1 $\frac{1}{4}$	$\frac{1}{8}$	.125	60
840	.147	.147	140*	1 $\frac{3}{8}$	$\frac{3}{16}$	.187	50*
	$\frac{11}{16}$	.265	32*	1 $\frac{1}{2}$	$\frac{5}{16}$	.312	43*
7 $\frac{1}{8}$	$\frac{3}{32}$	.156	9*	2 $\frac{3}{8}$	$\frac{5}{16}$	.316	36*
1 $\frac{1}{8}$	16	.065	12*	3 $\frac{3}{4}$	$\frac{1}{8}$	.562	70*
1% CHROME VAN, .45/.55 CARBON (SAE 6150)							
1 $\frac{1}{2}$	18	.049	252**	1 $\frac{3}{32}$	.225	.225	1,478
	.050	.050	2,740	1 $\frac{1}{2}$	.419	.419	108
2 $\frac{1}{2}$	11	.120	12	1.587	.379	.379	25*

* Soft Annealed

** Unannealed

The Ohio Seamless Tube Co.

O.D.	Ga.	Wall Dec.	Ft.	O.D.	Ga.	Wall Dec.	Ft.
1 $\frac{7}{8}$	$\frac{3}{16}$	.187	12	4.570	.535	.535	79
CHROME MOLYBDENUM .35 TO .45 CARBON (SAE 4140)							
1 $\frac{1}{8}$	$\frac{5}{32}$	.156	104	2 $\frac{5}{8}$	11	.120	18
	.195	.195	240		$\frac{5}{16}$	.312	88
1 $\frac{5}{8}$	$\frac{1}{4}$	.250	14	2 $\frac{3}{2}$	$\frac{5}{16}$	.312	111
1 $\frac{1}{4}$	.297	.297	256	3 $\frac{1}{2}$	.160	.160	13
1 $\frac{1}{2}$	.227	.227	82	3 $\frac{7}{8}$	$\frac{7}{16}$	.437	26
1 $\frac{3}{4}$	11	.120	39	4	$\frac{3}{16}$	.187	60
1 $\frac{3}{8}$	18	.049	52	4 $\frac{1}{4}$	$\frac{9}{32}$	.594	205
2 $\frac{1}{2}$	16	.065	150	4 $\frac{5}{8}$	$\frac{9}{16}$	.562	10
CHROME MOLYBDENUM .45 TO .55 CARBON (SAE 4150)							
$\frac{5}{8}$	$\frac{3}{16}$	.187	160	1 $\frac{7}{8}$	$\frac{9}{32}$	.281	6
1 $\frac{1}{6}$	16	.065	765	3 $\frac{1}{2}$	4	.238	13
1	12	.109	324				
CHROME MOLYBDENUM .50 TO .60 CARBON (SAE 4155)							
1 $\frac{5}{8}$	.149	.149	106	2 $\frac{5}{8}$	.261	.261	129
1.650	$\frac{7}{32}$	.218	8	3 $\frac{1}{8}$	$\frac{7}{32}$	.218	51
1 $\frac{21}{32}$	$\frac{9}{64}$	.141	45	4	.238		5
2 $\frac{5}{32}$	4	.238	31				
CHROME MOLYBDENUM .55 TO .65 CARBON (SAE 4160)							
2	$\frac{11}{64}$		90				
CHROME - NI - MOLYBDENUM .40 TO .47 CARBON (NE-8744) O. H.							
1 $\frac{15}{32}$	$\frac{11}{64}$	.172	96	4 $\frac{21}{64}$	.664	.664	13
MN - NI - CHROME MOLYBDENUM .28 TO .33 CARBON (NE-9430) O. H.							
1 $\frac{1}{2}$	$\frac{5}{32}$	.156	27	2	$\frac{11}{64}$	.172	100
MN - NI - CHROME MOLYBDENUM .33 TO .38 CARBON (NE-9435) O. H.							
2 $\frac{1}{8}$	$\frac{7}{32}$	.218	350				

* Soft Annealed

** Unannealed