



COLD DRAWN TUBING / J.I.C. HYDRAULIC (begins on pg. 50)

SPECIFICATIONS

ASTM A512	<i>CDBW & CDEW</i>
ASTM A513	<i>DOM</i>
ASTM A519	<i>CDSM</i>
SAE J524/J525	} <i>Hydraulic</i>
AMS 5050	
MIL-T-6736B	

HEAT TREATMENT

Annealed
Stress Relieved Annealed (SRA)
Normalized
Quenched & Tempered

OTHER FEATURES

Honed
Suitable to Hone

GRADES

1010
1015
1018
1020
1026
1030
1035
4130
4130 (*Q & T to physicals of L80 & N80*)
4140
ST52-3





Tubular Steel Inc.

COLD DRAWN MECHANICAL ALLOY TUBING - GRADE 4130

COLD DRAWN TUBING

O.D.	WALL	I.D.	WT./FT.	O.D.	WALL	I.D.	WT./FT.
1.000"	0.065"	0.870"	0.65	3.125"	0.312"	2.501"	9.37
1.125"	0.125"	0.875"	1.34	3.250"	0.438"	2.374"	13.15
	0.188"	0.749"	1.88		0.500"	2.250"	14.69
	0.250"	0.625"	2.34	3.375"	0.500"	2.375"	15.35
1.250"	0.065"	1.120"	0.82	3.438"	0.594"	2.250"	18.04
1.500"	0.065"	1.370"	1.00	3.500"	0.219"	3.062"	7.67
	0.237"	1.026"	3.20		0.250"	3.000"	8.68
1.625"	0.375"	0.875"	5.01		0.375"	2.750"	12.52
1.750"	0.065"	1.620"	1.17		0.530"	2.440"	16.81
	0.188"	1.374"	3.14	3.560"	0.650"	2.260"	20.20
1.875"	0.125"	1.625"	0.81	3.625"	0.250"	3.125"	9.01
2.000"	0.250"	1.500"	4.67	3.688"	0.625"	2.438"	20.45
2.125"	0.250"	1.625"	5.01	3.750"	0.219"	3.312"	8.26
2.250"	0.250"	1.750"	5.34	4.000"	0.188"	3.624"	7.65
	0.375"	1.500"	7.51		0.250"	3.500"	10.01
2.375"	0.240"	1.895"	5.47		0.500"	3.000"	18.69
	0.312"	1.751"	6.87		0.750"	2.500"	26.03
2.500"	0.250"	2.000"	6.01	4.250"	0.250"	3.750"	10.68
	0.750"	1.000"	14.02	4.750"	0.500"	3.750"	22.70
2.625"	0.313"	1.999"	7.73	5.000"	0.250"	4.500"	12.68
	0.500"	1.625"	11.35		0.375"	4.250"	18.52
2.750"	0.188"	2.374"	5.14	6.250"	0.563"	5.124"	34.20
2.875"	0.375"	2.125"	10.01	6.500"	0.500"	5.500"	32.04
	0.438"	1.999"	11.40		0.625"	5.250"	39.22
3.000"	0.188"	2.624"	5.65		0.750"	5.000"	46.06
	0.250"	2.500"	7.34	6.750"	0.625"	5.500"	40.88
3.063"	0.469"	2.125"	12.99	7.750"	0.750"	6.250"	56.07
3.109"	0.334"	2.441"	9.90	8.000"	0.750"	6.500"	58.07
3.120"	0.360"	2.400"	10.61		0.875"	6.250"	66.58



COLD DRAWN CARBON TUBING

O.D.	WALL	I.D.	WT./FT.	O.D.	WALL	I.D.	WT./FT.	
.250"	.035"	.180"	0.080	.750" (cont.)	.083"	.584"	0.591	
	.049"	.152"	0.105		.095"	.560"	0.665	
.312"	.035"	.242"	0.104		.109"	.532"	0.746	
	.049"	.214"	0.138		.120"	.510"	0.807	
	.065"	.182"	0.171		.125"	.500"	0.834	
.375"	.035"	.305"	0.127		.134"	.482"	0.882	
	.049"	.277"	0.171		.156"	.438"	0.990	
	.058"	.259"	0.196		.188"	.374"	1.128	
	.065"	.245"	0.215		.219"	.312"	1.242	
.438"	.058"	.322"	0.235		.875"	.065"	.745"	0.562
	.065"	.308"	0.259			.083"	.709"	0.702
	.109"	.220"	0.383			.095"	.685"	0.791
.500"	.035"	.430"	0.174	.109"		.657"	0.892	
	.049"	.402"	0.236	.120"		.635"	0.968	
	.058"	.384"	0.274	.125"		.625"	1.000	
	.065"	.370"	0.302	.134"		.607"	1.060	
	.072"	.356"	0.329	.156"		.563"	1.198	
	.083"	.334"	0.370	.188"		.499"	1.379	
	.095"	.310"	0.411	.219"		.437"	1.534	
	.109"	.282"	0.455	.840"		.147"	.546"	1.088
	.120"	.260"	0.487			.938"	.095"	.748"
.562"	.065"	.433"	0.346	.109"	.720"		0.964	
	.083"	.397"	0.425	.120"	.698"		1.048	
	.095"	.373"	0.475	.134"	.670"		1.150	
	.120"	.323"	0.568	.156"	.626"		1.303	
.625"	.035"	.555"	0.221	.188"	.562"		1.506	
	.049"	.527"	0.301	1.000"	.058"		.884"	0.584
	.058"	.509"	0.351		.065"	.870"	0.649	
	.065"	.495"	0.389		.083"	.834"	0.813	
	.083"	.459"	0.480		.072"	.856"	0.714	
	.095"	.435"	0.538		.095"	.819"	0.918	
	.109"	.407"	0.601		.109"	.782"	1.037	
	.120"	.385"	0.647		.120"	.760"	1.128	
	.156"	.313"	0.781		.125"	.750"	1.168	
.188"	.249"	0.877	.134"		.732"	1.239		
.688"	.065"	.558"	0.432		.156"	.688"	1.406	
	.083"	.522"	0.536		.188"	.624"	1.630	
	.109"	.470"	0.674		.219"	.562"	1.827	
	.120"	.448"	0.728	.250"	.500"	2.003		
.750"	.065"	.620"	0.476	.313"	.375"	2.293		
	.072"	.606"	0.521	1.050"	.154"	.742"	1.474	



Tubular Steel Inc.

COLD DRAWN CARBON TUBING

COLD DRAWN TUBING

O.D.	WALL	I.D.	WT./FT.	O.D.	WALL	I.D.	WT./FT.
1.062"	.095"	.873"	0.982	1.312" (cont.)	.250"	.813"	2.838
	.120"	.823"	1.209		1.375"	.095"	1.185"
	.134"	.795"	1.330	.109"		1.157"	1.438
	.156"	.751"	1.511	.120"		1.135"	1.608
	.188"	.687"	1.757	.125"		1.125"	1.669
	.250"	.563"	2.171	.134"		1.107"	1.776
	.375"	.312"	2.503	.156"		1.063"	2.031
1.125"	.065"	.995"	0.736	.188"	.999"	2.383	
	.083"	.959"	0.924	.250"	.875"	3.004	
	.095"	.935"	1.054	.312"	.751"	3.550	
	.109"	.907"	1.183	.375"	.625"	4.005	
	.120"	.885"	1.288	1.438"	.148"	1.142"	2.039
	.125"	.875"	1.335		.156"	1.126"	2.136
	.134"	.857"	1.418		.188"	1.062"	2.510
	.156"	.813"	1.614		.250"	.938"	3.172
	.188"	.749"	1.881		.281"	.876"	3.471
	.172"	.781"	1.751		.344"	.750"	4.019
	.219"	.687"	2.119	.375"	.688"	4.257	
	.250"	.625"	2.336	1.500"	.065"	1.370"	0.996
1.188"	.120"	.948"	1.369		.083"	1.344"	1.256
	.156"	.876"	1.719		.095"	1.310"	1.426
	.188"	.812"	2.008		.109"	1.282"	1.619
	.250"	.688"	2.504		.120"	1.260"	1.769
1.250"	.065"	1.120"	0.823		.125"	1.250"	1.836
	.083"	1.084"	1.035	.134"	1.232"	1.955	
	.095"	1.060"	1.172	.156"	1.188"	2.239	
	.109"	1.032"	1.323	.188"	1.124"	2.634	
	.120"	1.010"	1.448	.219"	1.062"	2.996	
	.125"	1.000"	1.502	.247"	1.005"	3.212	
	.134"	.982"	1.597	.250"	1.000"	3.338	
	.156"	.938"	1.823	.281"	.938"	3.658	
	.188"	.874"	2.132	.375"	.750"	4.506	
	.219"	.812"	2.411	.438"	.629"	4.968	
	.250"	.750"	2.670	.500"	.500"	5.340	
	.281"	.688"	2.908	1.562"	.095"	1.373"	1.489
.313"	.624"	3.132	.120"		1.323"	1.849	
.375"	.500"	3.504	.172"		1.219"	2.553	
1.312"	.109"	1.094"	1.400		.188"	1.187"	2.761
	.120"	1.073"	1.529		.219"	1.125"	3.144
	.134"	1.045"	1.687	.095"	.873"	0.982	
	.188"	.937"	2.259	.250"	1.063"	3.506	



COLD DRAWN CARBON TUBING

O.D.	WALL	I.D.	WT./FT.	O.D.	WALL	I.D.	WT./FT.
1.562" (cont.)	.375"	.813"	4.760	1.875" (cont.)	.219"	1.437"	3.873
1.625"	.065"	1.495"	1.083		.250"	1.375"	4.339
	.095"	1.435"	1.552		.281"	1.313"	4.784
	.120"	1.385"	1.928		.313"	1.249"	5.222
	.125"	1.375"	1.929		.375"	1.125"	6.008
	.156"	1.312"	2.447		.438"	1.000"	6.722
	.188"	1.249"	2.885		.500"	.875"	7.343
	.250"	1.125"	3.671	1.938"	.219"	1.500"	4.020
	.281"	1.063"	4.033		.250"	1.438"	4.507
	.313"	.999"	4.386		.375"	1.188"	6.260
	.375"	.875"	5.006	2.000"	.065"	1.870"	1.343
	.438"	.750"	5.553		.083"	1.834"	1.699
1.688"	.120"	1.448"	2.010		.095"	1.810"	1.933
	.156"	1.376"	2.552		.109"	1.782"	2.201
	.188"	1.312"	3.012		.120"	1.760"	2.409
	.250"	1.188"	3.838		.125"	1.750"	2.503
1.750"	.065"	1.620"	1.169		.134"	1.732"	2.670
	.083"	1.584"	1.477		.156"	1.688"	3.072
	.095"	1.560"	1.679		.188"	1.624"	3.638
	.109"	1.532"	1.910		.219"	1.562"	4.166
	.120"	1.510"	2.089		.237"	1.526"	4.462
	.125"	1.500"	2.169		.250"	1.500"	4.673
	.156"	1.438"	2.656		.281"	1.438"	5.159
	.188"	1.374"	3.136		.313"	1.374"	5.639
	.219"	1.312"	3.581		.344"	1.312"	6.080
	.250"	1.250"	4.005		.375"	1.250"	6.503
	.281"	1.188"	4.409		.438"	1.124"	7.307
	.313"	1.124"	4.804		.500"	1.000"	8.010
	.344"	1.062"	5.166		.563"	.874"	8.641
	.365"	1.020"	5.400		.625"	.750"	9.178
	.375"	1.000"	5.507		.750"	.500"	10.013
	.438"	.875"	6.137	2.125"	.120"	1.885"	2.570
	.500"	.750"	6.675		.125"	1.875"	2.670
1.812"	.156"	1.501"	2.760		.134"	1.857"	2.849
	.188"	1.437"	3.262		.156"	1.813"	3.281
	.219"	1.375"	3.727		.188"	1.749"	3.889
	.250"	1.312"	4.172		.219"	1.687"	4.458
1.875"	.109"	1.657"	2.056		.250"	1.625"	5.006
	.120"	1.635"	2.249		.313"	1.499"	6.057
	.156"	1.563"	2.864		.375"	1.375"	7.010
	.188"	1.499"	3.387		.500"	1.125"	8.678



Tubular Steel Inc.

COLD DRAWN CARBON TUBING

COLD DRAWN TUBING

O.D.	WALL	I.D.	WT./FT.	O.D.	WALL	I.D.	WT./FT.
2.125"	.563"	.999"	9.392	2.500" (cont.)	.250"	2.000"	6.008
2.250"	.095"	2.060"	2.186		.281"	1.938"	6.659
	.109"	2.032"	2.492		.313"	1.874"	7.311
	.120"	2.010"	2.730		.344"	1.812"	7.921
	.125"	2.000"	2.837		.375"	1.750"	8.511
	.134"	1.982"	3.028		.438"	1.624"	9.646
	.156"	1.938"	3.489		.500"	1.500"	10.680
	.188"	1.874"	4.140		.563"	1.374"	11.650
	.219"	1.812"	4.750		.625"	1.250"	12.520
	.250"	1.750"	5.340		.750"	1.000"	14.020
	.281"	1.688"	5.909	2.562"	.188"	2.187"	4.789
	.313"	1.624"	6.475		.250"	2.063"	8.211
	.344"	1.606"	7.002	2.625"	.125"	2.375"	3.338
	.375"	1.500"	7.509		.156"	2.313"	4.114
	.438"	1.374"	8.476		.188"	2.249"	4.893
	.500"	1.250"	9.345		.219"	2.187"	5.627
	.563"	1.124"	10.140		.250"	2.125"	6.341
	.625"	1.000"	10.847		.313"	2.000"	7.729
	.750"	.750"	12.015		.315"	1.995"	7.771
2.375"	.120"	2.135"	2.890		.375"	1.875"	9.011
	.156"	2.063"	3.697		.438"	1.749"	10.230
	.188"	1.999"	4.391		.500"	1.625"	11.348
	.219"	1.937"	5.043		.625"	1.375"	13.350
	.250"	1.875"	5.674		.750"	1.125"	15.020
	.281"	1.813"	6.284	2.750"	.095"	2.560"	2.640
	.313"	1.749"	6.893		.125"	2.500"	3.504
	.344"	1.687"	7.462		.156"	2.438"	4.322
	.375"	1.625"	8.010		.188"	2.374"	5.144
	.438"	1.499"	9.061		.219"	2.312"	5.920
	.500"	1.375"	10.013		.250"	2.250"	6.675
	.625"	1.125"	11.681		.281"	2.188"	7.410
2.500"	.065"	2.370"	1.690		.313"	2.124"	8.147
	.083"	2.334"	2.143		.344"	2.062"	8.840
	.095"	2.310"	2.440		.364"	2.022"	9.276
	.109"	2.282"	2.783		.375"	2.000"	9.512
	.120"	2.260"	3.050		.438"	1.874"	10.815
	.125"	2.250"	3.171		.500"	1.750"	12.015
	.134"	2.232"	3.386		.563"	1.625"	13.150
	.156"	2.188"	3.905		.625"	1.500"	14.184
	.188"	2.124"	4.642		.750"	1.250"	16.020
	.219"	2.062"	5.335		.875"	1.000"	17.522



COLD DRAWN CARBON TUBING

O.D.	WALL	I.D.	WT./FT.	O.D.	WALL	I.D.	WT./FT.
2.875"	.120"	2.635"	3.531	3.125" (cont.)	.375"	2.375"	11.010
	.125"	2.625"	3.671		.500"	2.125"	14.020
	.188"	2.499"	5.395		.750"	1.625"	19.020
	.219"	2.437"	6.212	3.250"	1.000"	1.125"	22.700
	.250"	2.375"	7.009		.095"	3.060"	3.201
	.313"	2.249"	8.564		.120"	3.010"	4.011
	.375"	2.125"	10.013		.125"	3.000"	4.172
	.438"	1.999"	11.400		.188"	2.874"	6.148
	.500"	1.875"	12.683		.250"	2.750"	8.010
	.563"	1.799"	13.902		.281"	2.688"	8.910
	.750"	1.375"	17.020		.313"	2.624"	9.818
3.000"	.065"	2.870"	2.037	.344"	2.562"	10.676	
	.083"	2.834"	2.586	.375"	2.500"	11.514	
	.095"	2.810"	2.947	.438"	2.374"	13.154	
	.109"	2.782"	3.366	.500"	2.250"	14.685	
	.120"	2.760"	3.691	.563"	2.124"	16.157	
	.125"	2.750"	3.838	.625"	2.000"	17.522	
	.156"	2.688"	4.738	.750"	1.750"	20.000	
	.188"	2.624"	5.646	.875"	1.500"	22.194	
	.219"	2.562"	6.505	1.000"	1.250"	24.000	
	.250"	2.500"	7.343	3.375"	.125"	3.125"	4.339
	.281"	2.438"	8.160		.188"	2.999"	6.399
	.313"	2.374"	8.982		.219"	2.937"	7.382
	.344"	2.312"	9.578		.250"	2.875"	8.344
	.375"	2.250"	10.513		.313"	2.749"	10.236
	.438"	2.124"	11.985		.375"	2.625"	12.015
	.500"	2.000"	13.350		.438"	2.499"	13.739
	.563"	1.874"	14.563		.500"	2.375"	15.353
	.625"	1.750"	15.853	.563"	2.249"	16.908	
	.688"	1.625"	16.988	.625"	2.125"	18.356	
.750"	1.500"	18.000	3.500"	.083"	3.334"	3.029	
.875"	1.375"	19.858		.095"	3.331"	3.455	
1.000"	1.000"	21.400		.120"	3.260"	4.332	
3.063"	.534"	1.995"		14.423	.125"	3.500"	4.652
	3.125"	.120"		2.885"	3.851	.134"	3.232"
.125"		2.875"		4.005	.188"	3.124"	6.650
.188"		2.749"		5.897	.219"	3.062"	7.674
.250"		2.625"	7.676	.250"	3.000"	8.678	
.313"		2.499"	9.400	.281"	2.938"	9.660	
.342"		2.441"	10.165	.313"	2.874"	10.654	



Tubular Steel Inc.

COLD DRAWN CARBON TUBING

COLD DRAWN TUBING

O.D.	WALL	I.D.	WT./FT.	O.D.	WALL	I.D.	WT./FT.
3.500" (cont.)	.344"	2.812"	11.595	4.000"	.065"	3.870"	2.732
	.375"	2.750"	12.516		.083"	3.834"	3.472
	.438"	2.624"	14.324		.095"	3.810"	3.962
	.500"	2.500"	16.020		.125"	3.750"	4.973
	.563"	2.374"	17.660		.134"	3.732"	5.533
	.625"	2.250"	19.191		.188"	3.624"	7.654
	.650"	2.200"	19.785		.219"	3.562"	8.843
	.750"	2.000"	22.000		.250"	3.500"	10.013
	.875"	1.750"	24.530		.281"	3.438"	11.161
	1.000"	1.500"	26.700		.313"	3.374"	12.325
3.625"	.120"	3.385"	4.492	.375"	3.250"	14.518	
	.188"	3.249"	6.901	.438"	3.124"	16.662	
	.250"	3.125"	9.011	.500"	3.000"	18.690	
	.313"	2.999"	11.071	.625"	2.750"	22.528	
	.375"	2.875"	13.016	.750"	2.500"	26.000	
	.438"	2.749"	14.908	.875"	2.250"	29.203	
	.500"	2.625"	16.690	1.000"	2.000"	32.000	
	.625"	2.375"	20.025	1.250"	1.500"	36.700	
	.750"	2.125"	23.030	4.095"	.180"	3.735"	7.526
	1.000"	1.625"	28.035	4.125"	.125"	3.875"	5.340
3.750"	.109"	3.532"	4.239	.188"	3.749"	7.905	
	.125"	3.500"	4.652	.250"	3.625"	10.346	
	.188"	3.374"	7.152	.375"	3.375"	15.019	
	.250"	3.250"	9.345	.500"	3.125"	19.360	
	.313"	3.125"	11.489	.625"	2.875"	23.363	
	.344"	3.062"	12.513	4.250"	.095"	4.060"	4.216
	.375"	3.000"	13.517	.125"	4.000"	5.293	
	.438"	2.875"	15.493	.188"	3.874"	8.156	
	.500"	2.750"	17.355	.250"	3.750"	10.680	
	.625"	2.500"	20.859	.313"	3.624"	13.161	
.750"	2.250"	24.030	.375"	3.500"	15.519		
.875"	2.000"	26.867	.438"	3.374"	17.832		
1.000"	1.750"	29.370	.500"	3.250"	20.025		
3.875"	.188"	3.499"	7.403	.625"	3.000"	24.197	
	.250"	3.375"	9.679	.750"	2.750"	28.000	
	.313"	3.249"	11.907	.875"	2.500"	31.539	
	.375"	3.125"	14.020	1.000"	2.250"	34.700	
	.500"	2.875"	18.020	4.375"	.188"	3.999"	8.407
	.625"	2.625"	21.693	.250"	3.875"	11.014	
	.750"	2.375"	25.030	.313"	3.749"	13.579	
	1.000"	1.875"	30.710	.375"	3.625"	16.020	



COLD DRAWN CARBON TUBING

O.D.	WALL	I.D.	WT./FT.	O.D.	WALL	I.D.	WT./FT.
4.375" (cont.)	.500"	3.375"	20.690	5.000" (cont.)	.438"	4.124"	21.340
	.625"	3.125"	25.031		.500"	4.000"	24.030
	.750"	2.875"	29.040		.625"	3.750"	29.200
	1.000"	2.375"	36.050		.750"	3.500"	34.043
4.500"	.095"	4.310"	4.469	.875"	3.250"	38.548	
	.125"	4.250"	5.613	1.000"	3.000"	42.700	
	.134"	4.232"	6.248	1.250"	2.500"	50.063	
	.188"	4.124"	8.658	5.125"	.312"	4.500"	16.085
	.219"	4.062"	10.013		.375"	4.375"	19.023
	.250"	4.000"	11.348	.500"	4.125"	24.697	
	.313"	3.874"	13.996	5.250"	.125"	5.000"	6.842
	.375"	3.750"	16.521		.188"	4.874"	10.164
	.438"	3.624"	19.001	.250"	4.750"	13.350	
	.500"	3.500"	21.360	.313"	4.624"	16.504	
	.625"	3.250"	25.866	.375"	4.500"	19.524	
	.750"	3.000"	30.000	.500"	4.250"	25.365	
	.875"	2.750"	33.876	.625"	4.000"	30.870	
	1.000"	2.500"	37.400	.750"	3.750"	36.045	
1.250"	2.000"	43.330	1.000"	3.250"	45.400		
4.625"	.188"	4.249"	8.909	1.250"	2.750"	53.400	
	.250"	4.125"	11.681	5.375"	.188"	4.999"	10.415
	.313"	3.999"	13.037		.250"	4.875"	13.684
	.375"	3.875"	17.021	.500"	4.375"	26.030	
	.500"	3.625"	22.030	5.500"	.125"	5.250"	7.176
.625"	3.375"	26.700	.188"		5.124"	10.666	
4.750"	.125"	4.500"	6.174	.219"	5.062"	12.352	
	.188"	4.374"	9.160	.250"	5.000"	14.018	
	.250"	4.250"	12.015	.313"	4.874"	17.339	
	.312"	4.125"	14.832	.375"	4.750"	20.526	
	.375"	4.000"	17.522	.438"	4.624"	23.679	
	.438"	3.874"	20.171	.500"	4.500"	26.700	
	.500"	3.750"	22.695	.625"	4.250"	32.540	
	.625"	3.500"	27.534	.750"	4.000"	38.048	
	.750"	3.250"	32.000	1.000"	3.500"	48.060	
	1.000"	2.750"	40.100	1.125"	3.250"	52.566	
5.000"	1.250"	2.250"	46.700	5.750"	.125"	5.500"	7.509
	.125"	4.750"	6.508		.188"	5.374"	11.168
	.188"	4.624"	9.662	.250"	5.250"	14.685	
	.219"	4.562"	11.182	.313"	5.124"	18.175	
	.250"	4.500"	12.683	.375"	5.000"	21.527	
	.313"	4.374"	15.688	.500"	4.750"	28.035	
.375"	4.250"	18.523	.625"	4.500"	34.200		



Tubular Steel Inc.

COLD DRAWN CARBON TUBING

COLD DRAWN TUBING

O.D.	WALL	I.D.	WT./FT.	O.D.	WALL	I.D.	WT./FT.
5.750" (cont.)	.750"	4.250"	40.050	7.000" (cont.)	.500"	6.000"	34.710
	1.000"	3.750"	50.700		.625"	5.750"	42.600
6.000"	.125"	5.750"	7.834	.750"	5.500"	50.063	
	.188"	5.624"	11.670	1.000"	5.000"	64.100	
	.250"	5.500"	15.353	1.250"	4.500"	76.763	
	.313"	5.374"	19.011	7.250"	.188"	6.874"	14.179
	.375"	5.250"	22.528		.250"	6.750"	18.690
	.438"	5.124"	26.018		.375"	6.500"	27.534
	.500"	5.000"	29.370		.500"	6.250"	36.045
	.625"	4.750"	35.900		.625"	6.000"	44.200
	.750"	4.500"	42.053	1.000"	5.250"	66.800	
	1.000"	4.000"	53.400	7.500"	.188"	7.125"	14.681
1.250"	3.500"	63.413	.250"		7.000"	19.358	
6.250"	.125"	6.000"	8.177		.375"	6.750"	28.536
	.188"	5.874"	12.172		.500"	6.500"	37.380
	.250"	5.750"	16.020		.625"	6.250"	45.900
	.313"	5.624"	19.846	.750"	6.000"	54.068	
	.375"	5.500"	23.529	1.000"	5.500"	69.400	
	.500"	5.250"	30.705	1.250"	5.000"	83.438	
	.625"	5.000"	37.557	7.750"	.250"	7.250"	20.025
	.750"	4.750"	44.055		.375"	7.000"	29.539
	1.000"	4.250"	56.100		.500"	6.750"	38.715
	6.500"	.188"	6.124"		12.673	.750"	6.250"
.250"		6.000"	16.688		1.000"	5.750"	72.090
.375"		5.750"	24.531	8.000"	.250"	7.500"	20.693
.500"		5.500"	32.040		.375"	7.250"	30.538
.625"		5.250"	39.216		.500"	7.000"	40.050
.750"		5.000"	46.058		.625"	6.750"	49.200
.875"		4.750"	52.566		1.000"	6.000"	74.800
1.000"		4.500"	58.700	8.250"	.250"	7.750"	21.360
1.250"		4.000"	70.088		.375"	7.500"	31.539
6.750"		.250"	6.250"		17.355	.500"	7.250"
	.375"	6.000"	25.532		.625"	7.000"	50.900
	.500"	5.750"	33.375		1.000"	6.250"	77.430
	.625"	5.500"	40.884	8.500"	.250"	8.000"	22.028
	.750"	5.250"	48.060		.375"	7.750"	32.541
1.000"	4.750"	61.400	.500"		7.500"	42.720	
7.000"	.188"	6.624"	13.677		.625"	7.250"	52.570
	.250"	6.500"	18.023		1.000"	6.500"	80.100
	.312"	6.376"	22.354	8.750"	.250"	8.250"	22.695
	.375"	6.250"	26.533		.313"	8.124"	28.204



COLD DRAWN CARBON TUBING

O.D.	WALL	I.D.	WT./FT.	O.D.	WALL	I.D.	WT./FT.
8.750" (cont.)	.375"	8.000"	33.542	10.500" (cont.)	.750"	9.500"	78.098
	.500"	7.750"	44.055		1.000"	8.750"	101.500
	.625"	7.500"	54.234	10.750"	.250"	10.250"	28.035
	.750"	7.250"	64.080		.375"	10.000"	41.552
	1.000"	6.750"	82.800		.500"	9.750"	54.735
9.000"	.250"	8.500"	23.363	1.000"	8.750"	104.100	
	.375"	8.250"	34.543	11.000"	.250"	10.500"	28.703
	.500"	8.000"	45.390		.375"	10.250"	42.553
	.625"	7.750"	53.900		.500"	10.000"	56.070
	.750"	7.500"	66.083		.750"	9.500"	82.100
1.000"	7.000"	85.400	1.000"		9.000"	106.800	
9.250"	.250"	8.750"	24.030	11.250"	.250"	10.750"	29.370
	.375"	8.500"	35.544		.375"	10.500"	43.554
	.500"	8.250"	46.725		.500"	10.250"	57.405
	.625"	8.000"	57.570		.750"	9.750"	84.100
	1.000"	7.250"	88.100		1.000"	9.250"	109.500
9.500"	.250"	9.000"	24.698	11.500"	.250"	11.000"	30.038
	.313"	8.874"	30.711		.375"	10.750"	44.556
	.375"	8.750"	36.546		.500"	10.500"	58.740
	.500"	8.500"	48.060		.750"	10.000"	86.100
	.625"	8.250"	59.241		1.000"	9.500"	112.100
	1.000"	7.500"	90.800		11.750"	.250"	11.250"
9.750"	.250"	9.250"	25.365	.375"		11.000"	45.557
	.375"	9.000"	37.547	.500"		10.750"	60.075
	.500"	8.750"	49.395	.750"		10.250"	88.100
	.625"	8.500"	60.909	1.000"		9.750"	114.800
	.750"	8.250"	72.090	12.000"	.250"	11.500"	31.373
10.000"	.250"	9.500"	26.033		.375"	11.250"	46.558
	.375"	9.250"	38.548		.500"	11.000"	61.410
	.500"	9.000"	50.730		.750"	10.500"	90.100
	.625"	8.750"	62.600	1.000"	10.000"	117.500	
	.750"	8.500"	74.093	12.250"	.250"	11.750"	32.040
1.000"	8.000"	96.100	.375"		11.500"	47.559	
1.250"	7.500"	116.813	.500"		11.250"	62.750	
10.250"	.250"	9.750"	26.700		.750"	10.750"	92.100
	.375"	9.500"	39.549	1.000"	10.250"	120.200	
	.500"	9.250"	52.065	12.500"	.250"	12.000"	32.708
	1.000"	8.250"	98.800		.375"	11.750"	48.561
10.500"	.250"	10.000"	27.368		.500"	11.500"	64.080
	.375"	9.750"	40.551	12.750"	.375"	12.000"	49.600
	.500"	9.500"	53.400		.500"	11.750"	65.400



Tubular Steel Inc.

COLD DRAWN CARBON TUBING

COLD DRAWN TUBING

O.D.	WALL	I.D.	WT./FT.	O.D.	WALL	I.D.	WT./FT.
13.000"	.250"	12.500"	34.043	14.000"	.375"	13.250"	54.600
	.375"	12.250"	50.563		.500"	13.000"	72.100
	.500"	12.000"	66.750		14.250"	.375"	13.500"
13.250"	.250"	12.750"	34.710	.500"		13.250"	73.425
	.375"	12.500"	51.564	14.500"		.375"	13.750"
	.500"	12.250"	68.085		.500"	13.500"	74.760
13.500"	.375"	12.750"	52.566		14.750"	.375"	14.000"
	.500"	12.500"	69.420	.500"		13.750"	76.095
	13.750"	.375"	13.000"	53.567		15.000"	.375"
.500"		12.750"	70.755	.500"	14.000"		77.400

COLD DRAWN J.I.C. HYDRAULIC TUBING

O.D.	WALL	I.D.	WT./FT.	O.D.	WALL	I.D.	WT./FT.		
.250"	.028"	.194"	.066	.750" (cont.)	.083"	.584"	.591		
	.035"	.180"	.080		.095"	.560"	.665		
	.049"	.152"	.105		.109"	.532"	.746		
	.065"	.120"	.128		.120"	.510"	.807		
.312"	.028"	.257"	.080	.875"	.049"	.777"	.432		
	.035"	.243"	.104		.065"	.745"	.562		
	.049"	.215"	.138		.095"	.685"	.791		
	.065"	.183"	.172		1.000"	.049"	.902"	.498	
.375"	.035"	.305"	.127	.065"		.870"	.649		
	.049"	.277"	.171	.083"		.834"	.813		
	.058"	.259"	.196	.095"		.810"	.918		
	.065"	.245"	.215	.109"	.782"	1.037			
.500"	.083"	.209"	.259	.120"	.760"	1.128			
	.625"	.035"	.430"	.174	1.125"	.065"	.995"	.736	
		.049"	.402"	.236		1.250"	.065"	1.120"	.823
		.065"	.370"	.302			.095"	1.060"	1.172
.083"		.334"	.370	.120"			1.010"	1.448	
.095"	.310"	.411	.134"	.982"	1.597				
.625"	.035"	.555"	.221	1.500"	.065"	1.370"	.996		
	.049"	.527"	.301		.095"	1.310"	1.426		
	.065"	.495"	.389		.120"	1.260"	1.769		
	.083"	.459"	.481		.134"	1.232"	1.954		
.750"	.095"	.435"	.538	.156"	1.188"	2.239			
	1.000"	.035"	.680"	.267	1.750"	.065"	1.620"	1.170	
		.049"	.652"	.367		2.000"	.065"	1.870"	1.343
		.065"	.620"	.476			.095"	1.810"	1.933



HONED ID TUBING — ASTM A513 TYPE 5

I.D.	WALL	O.D.	WT./FT.	I.D.	WALL	O.D.	WT./FT.
2.000"	.188"	2.375"	4.391	4.500"	.250"	5.000"	12.683
	.250"	2.500"	6.008		.375"	5.250"	19.524
2.250"	.188"	2.625"	4.869	4.750"	.250"	5.250"	13.35
	.250"	2.750"	6.675	5.000"	.250"	5.500"	14.018
2.500"	.188"	2.875"	5.395		.375"	5.750"	21.527
	.250"	3.000"	7.343		.500"	6.000"	29.37
2.750"	.250"	3.250"	8.010	5.250"	.250"	5.750"	14.685
3.000"	.188"	3.375"	6.399		.375"	6.000"	22.528
	.250"	3.500"	8.678	5.500"	.250"	6.000"	15.353
	.375"	3.750"	13.517		.500"	6.500"	32.040
3.250"	.250"	3.750"	9.345	6.000"	.250"	6.500"	16.688
	.375"	4.000"	14.518		.375"	6.750"	25.532
3.500"	.250"	4.000"	10.013		.500"	7.000"	34.710
	.500"	4.500"	21.360	6.500"	.250"	7.000"	18.023
3.750"	.250"	4.250"	10.68		.375"	7.250"	27.534
	.375"	4.500"	16.521		.500"	7.500"	37.380
4.000"	.188"	4.375"	8.407	7.000"	.375"	7.750"	29.539
	.250"	4.500"	11.348		.500"	8.000"	40.050
	.375"	4.750"	17.522	8.000"	.500"	9.000"	45.390
	.500"	5.000"	24.03	9.000"	.500"	10.000"	50.730
4.250"	.250"	4.750"	12.015				

CHROME PLATED BARS — .0005" MINIMUM THICKNESS

75K YIELD

O.D.	WT./FT.	O.D.	WT./FT.
.750"	1.502	2.500"	16.69
1.000"	2.670	2.750"	20.19
1.250"	4.172	3.000"	24.03
1.500"	6.008	3.500"	32.71
1.750"	8.178	4.000"	42.73
2.000"	10.68	4.500"	54.08
2.250"	13.52		

100K YIELD

O.D.	WT./FT.	O.D.	WT./FT.
.625"	1.043	2.000"	10.68
.750"	1.502	2.250"	13.52
.875"	2.040	2.500"	16.69
1.000"	2.670	2.750"	20.19
1.125"	3.380	3.000"	24.03
1.250"	4.172	3.250"	28.20
1.375"	5.049	3.500"	32.71
1.500"	6.008	3.750"	37.55
1.625"	7.050	4.000"	42.73
1.750"	8.178	4.500"	54.08