



PREMIUM IMPORT AND DOMESTIC STEEL IN SEAMLESS, ERW AND DSAW (API, ASTM, A53, A 106)

PHYSICAL & CHEMICAL PROPERTIES

Standard Specification	Application	Chemical Requirement				Physical Requirement		Other Tests & Inspections	
		C	Si	Mn	P	S	Tensile Strength Min.		Yield Strength Min.
ASTM A53	A	0.25 Max.	—	0.95 Max.	0.05 Max.	0.06 Max.	48,000 psi (33.7 kg/mm ²)	30,000 psi (21.1 kg/mm ²)	Zinc Coating Test — 1.8 oz/FT ² Min.
	B	0.30 Max.	—	1.20 Max.	0.05 Max.	0.06 Max.	60,000 psi (42.2 kg/mm ²)	35,000 psi (24.6 kg/mm ²)	
API 5L	Grade A25	0.21 Max.	—	0.30-0.60 Max.	0.045 Max.	0.06 Max.	45,000 psi (31.6 kg/mm ²)	25,000 psi (17.6 kg/mm ²)	Hydrostatic Test Specified in size & grade
				0.30-0.60 Max.	0.045 Min., 0.080 Max.	0.06 Max.	45,000 psi (31.6 kg/mm ²)	25,000 psi (17.6 kg/mm ²)	
	A	0.21 Max.	—	0.90 Max.	0.04 Max.	0.05 Max.	48,000 psi (33.7 kg/mm ²)	30,000 psi (21.1 kg/mm ²)	
		0.26 Max. Welded	—	1.15 Max.	0.04 Max.	0.05 Max.	60,000 psi (42.2 kg/mm ²)	35,000 psi (24.6 kg/mm ²)	
A106	Grade A	0.25 Max.	0.10 Min.	0.27 Min., 0.93 Max.	0.048 Max.	0.058 Max.	48,000 psi (33.7 kg/mm ²)	30,000 psi (21.1 kg/mm ²)	No Hydrostatic Test Required
				0.29 Min., 1.06 Max.	0.048 Max.	0.058 Max.	60,000 psi (42.2 kg/mm ²)	35,000 psi (24.6 kg/mm ²)	
	B	0.30 Max.	0.10 Min.	0.29 Min., 1.06 Max.	0.048 Max.	0.058 Max.	70,000 psi (49.2 kg/mm ²)	40,000 psi (28.1 kg/mm ²)	
		0.35 Max.	0.10 Min.	0.29 Min., 1.06 Max.	0.050 Max.	—	50,000 psi (35.2 kg/mm ²)	30,000 psi (21.1 kg/mm ²)	
ASTM A252	1	—	—	—	0.050 Max.	—	60,000 psi (42.2 kg/mm ²)	35,000 psi (24.6 kg/mm ²)	No Hydrostatic Test Required
	3	—	—	0.050 Max.	—	—	—		

Common Sizes and API Standard/Not Scheduled

Nom. size	O.D.	.125	.156	.188	.250	.281	.312	.344	.375	.406	.438	.469	.500	.531	.562	.593	.625	.656	.687	.718	.750	.781	.812	.843	.875	.906	.937	.968	1.000	1.031	1.062	1.093	1.125	1.156	1.187	1.218	1.250	1.281	1.312	1.343	1.375	1.406	1.437	1.468	1.500	1.531	1.562	1.593	1.625	1.656	1.687	1.718	1.750	1.781	1.812	1.843	1.875	1.906	1.937	1.968	2.000	2.031	2.062	2.093	2.125	2.156	2.187	2.218	2.250	2.281	2.312	2.343	2.375	2.406	2.437	2.468	2.500	2.531	2.562	2.593	2.625	2.656	2.687	2.718	2.750	2.781	2.812	2.843	2.875	2.906	2.937	2.968	3.000	3.031	3.062	3.093	3.125	3.156	3.187	3.218	3.250	3.281	3.312	3.343	3.375	3.406	3.437	3.468	3.500	3.531	3.562	3.593	3.625	3.656	3.687	3.718	3.750	3.781	3.812	3.843	3.875	3.906	3.937	3.968	4.000	4.031	4.062	4.093	4.125	4.156	4.187	4.218	4.250	4.281	4.312	4.343	4.375	4.406	4.437	4.468	4.500	4.531	4.562	4.593	4.625	4.656	4.687	4.718	4.750	4.781	4.812	4.843	4.875	4.906	4.937	4.968	5.000	5.031	5.062	5.093	5.125	5.156	5.187	5.218	5.250	5.281	5.312	5.343	5.375	5.406	5.437	5.468	5.500	5.531	5.562	5.593	5.625	5.656	5.687	5.718	5.750	5.781	5.812	5.843	5.875	5.906	5.937	5.968	6.000	6.031	6.062	6.093	6.125	6.156	6.187	6.218	6.250	6.281	6.312	6.343	6.375	6.406	6.437	6.468	6.500	6.531	6.562	6.593	6.625	6.656	6.687	6.718	6.750	6.781	6.812	6.843	6.875	6.906	6.937	6.968	7.000	7.031	7.062	7.093	7.125	7.156	7.187	7.218	7.250	7.281	7.312	7.343	7.375	7.406	7.437	7.468	7.500	7.531	7.562	7.593	7.625	7.656	7.687	7.718	7.750	7.781	7.812	7.843	7.875	7.906	7.937	7.968	8.000	8.031	8.062	8.093	8.125	8.156	8.187	8.218	8.250	8.281	8.312	8.343	8.375	8.406	8.437	8.468	8.500	8.531	8.562	8.593	8.625	8.656	8.687	8.718	8.750	8.781	8.812	8.843	8.875	8.906	8.937	8.968	9.000	9.031	9.062	9.093	9.125	9.156	9.187	9.218	9.250	9.281	9.312	9.343	9.375	9.406	9.437	9.468	9.500	9.531	9.562	9.593	9.625	9.656	9.687	9.718	9.750	9.781	9.812	9.843	9.875	9.906	9.937	9.968	10.000	10.031	10.062	10.093	10.125	10.156	10.187	10.218	10.250	10.281	10.312	10.343	10.375	10.406	10.437	10.468	10.500	10.531	10.562	10.593	10.625	10.656	10.687	10.718	10.750	10.781	10.812	10.843	10.875	10.906	10.937	10.968	11.000	11.031	11.062	11.093	11.125	11.156	11.187	11.218	11.250	11.281	11.312	11.343	11.375	11.406	11.437	11.468	11.500	11.531	11.562	11.593	11.625	11.656	11.687	11.718	11.750	11.781	11.812	11.843	11.875	11.906	11.937	11.968	12.000	12.031	12.062	12.093	12.125	12.156	12.187	12.218	12.250	12.281	12.312	12.343	12.375	12.406	12.437	12.468	12.500	12.531	12.562	12.593	12.625	12.656	12.687	12.718	12.750	12.781	12.812	12.843	12.875	12.906	12.937	12.968	13.000	13.031	13.062	13.093	13.125	13.156	13.187	13.218	13.250	13.281	13.312	13.343	13.375	13.406	13.437	13.468	13.500	13.531	13.562	13.593	13.625	13.656	13.687	13.718	13.750	13.781	13.812	13.843	13.875	13.906	13.937	13.968	14.000	14.031	14.062	14.093	14.125	14.156	14.187	14.218	14.250	14.281	14.312	14.343	14.375	14.406	14.437	14.468	14.500	14.531	14.562	14.593	14.625	14.656	14.687	14.718	14.750	14.781	14.812	14.843	14.875	14.906	14.937	14.968	15.000	15.031	15.062	15.093	15.125	15.156	15.187	15.218	15.250	15.281	15.312	15.343	15.375	15.406	15.437	15.468	15.500	15.531	15.562	15.593	15.625	15.656	15.687	15.718	15.750	15.781	15.812	15.843	15.875	15.906	15.937	15.968	16.000	16.031	16.062	16.093	16.125	16.156	16.187	16.218	16.250	16.281	16.312	16.343	16.375	16.406	16.437	16.468	16.500	16.531	16.562	16.593	16.625	16.656	16.687	16.718	16.750	16.781	16.812	16.843	16.875	16.906	16.937	16.968	17.000	17.031	17.062	17.093	17.125	17.156	17.187	17.218	17.250	17.281	17.312	17.343	17.375	17.406	17.437	17.468	17.500	17.531	17.562	17.593	17.625	17.656	17.687	17.718	17.750	17.781	17.812	17.843	17.875	17.906	17.937	17.968	18.000	18.031	18.062	18.093	18.125	18.156	18.187	18.218	18.250	18.281	18.312	18.343	18.375	18.406	18.437	18.468	18.500	18.531	18.562	18.593	18.625	18.656	18.687	18.718	18.750	18.781	18.812	18.843	18.875	18.906	18.937	18.968	19.000	19.031	19.062	19.093	19.125	19.156	19.187	19.218	19.250	19.281	19.312	19.343	19.375	19.406	19.437	19.468	19.500	19.531	19.562	19.593	19.625	19.656	19.687	19.718	19.750	19.781	19.812	19.843	19.875	19.906	19.937	19.968	20.000	20.031	20.062	20.093	20.125	20.156	20.187	20.218	20.250	20.281	20.312	20.343	20.375	20.406	20.437	20.468	20.500	20.531	20.562	20.593	20.625	20.656	20.687	20.718	20.750	20.781	20.812	20.843	20.875	20.906	20.937	20.968	21.000	21.031	21.062	21.093	21.125	21.156	21.187	21.218	21.250	21.281	21.312	21.343	21.375	21.406	21.437	21.468	21.500	21.531	21.562	21.593	21.625	21.656	21.687	21.718	21.750	21.781	21.812	21.843	21.875	21.906	21.937	21.968	22.000	22.031	22.062	22.093	22.125	22.156	22.187	22.218	22.250	22.281	22.312	22.343	22.375	22.406	22.437	22.468	22.500	22.531	22.562	22.593	22.625	22.656	22.687	22.718	22.750	22.781	22.812	22.843	22.875	22.906	22.937	22.968	23.000	23.031	23.062	23.093	23.125	23.156	23.187	23.218	23.250	23.281	23.312	23.343	23.375	23.406	23.437	23.468	23.500	23.531	23.562	23.593	23.625	23.656	23.687	23.718	23.750	23.781	23.812	23.843	23.875	23.906	23.937	23.968	24.000	24.031	24.062	24.093	24.125	24.156	24.187	24.218	24.250	24.281	24.312	24.343	24.375	24.406	24.437	24.468	24.500	24.531	24.562	24.593	24.625	24.656	24.687	24.718	24.750	24.781	24.812	24.843	24.875	24.906	24.937	24.968	25.000	25.031	25.062	25.093	25.125	25.156	25.187	25.218	25.250	25.281	25.312	25.343	25.375	25.406	25.437	25.468	25.500	25.531	25.562	25.593	25.625	25.656	25.687	25.718	25.750	25.781	25.812	25.843	25.875	25.906	25.937	25.968	26.000	26.031	26.062	26.093	26.125	26.156	26.187	26.218	26.250	26.281	26.312	26.343	26.375	26.406	26.437	26.468	26.500	26.531	26.562	26.593	26.625	26.656	26.687	26.718	26.750	26.781	26.812	26.843	26.875	26.906	26.937	26.968	27.000	27.031	27.062	27.093	27.125	27.156	27.187	27.218	27.250	27.281	27.312	27.343	27.375	27.406	27.437	27.468	27.500	27.531	27.562	27.593	27.625	27.656	27.687	27.718	27.750	27.781	27.812
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AMERICA'S INDUSTRY LEADER IN WHOLESALE DISTRIBUTION OF CARBON STEEL PIPE

• ONE CALL • ONE SOURCE • ONE SOLUTION

TOLL FREE (800) 272-VASS
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 FAX: (225) 755-8278

158 Third St.
 P.O. Box 583
 Mineola, NY 11501

Formula to Find Weight Per Foot of All Plain End Pipe

$$\text{Weight (LB/FT)} = \left(\text{O.D. (Inches)} - \text{Wall Thickness (Inches)} \right) \times 10.69 \times \text{Wall Thickness (Inches)}$$

Blue figures indicate wall thickness in inches
 Black figures indicate weight per foot in pounds

PIPE SIZE	O.D. IN INCHES	5	10	20	30	40	STD.	60	80	XH	100	120	140	160	XXH
1/8	.405	.035 .14	.049 .19			.068 .24	.068 .24		.095 .31	.095 .31					
1/4	.540	.049 .26	.065 .33			.088 .43	.088 .43		.119 .54	.119 .54					
3/8	.675	.049 .33	.065 .42			.091 .57	.091 .57		.126 .74	.126 .74					
1/2	.840	.065 .54	.083 .67			.109 .85	.109 .85		.147 1.09	.147 1.09				.187 1.31	.294 1.72
3/4	1.050	.065 .68	.083 .86			.113 1.13	.113 1.13		.154 1.48	.154 1.48				.218 1.95	.308 2.44
1	1.315	.065 .87	.109 1.40			.133 1.68	.133 1.68		.179 2.17	.179 2.17				.250 2.85	.358 3.66
1 1/4	1.660	.065 1.11	.109 1.81			.140 2.27	.140 2.27		.191 3.00	.191 3.00				.250 3.77	.382 5.22
1 1/2	1.900	.065 1.27	.109 2.09			.145 2.72	.145 2.72		.200 3.63	.200 3.63				.281 4.86	.400 6.41
2	2.375	.065 1.60	.109 2.64			.154 3.66	.154 3.66		.218 5.03	.218 5.03				.343 7.47	.436 9.04
2 1/2	2.875	.083 2.47	.120 3.53			.203 5.80	.203 5.80		.276 7.67	.276 7.67				.375 10.02	.552 13.71
3	3.500	.083 3.03	.120 4.33			.216 7.58	.216 7.58		.300 10.26	.300 10.26				.438 14.34	.600 18.60
3 1/2	4.0	.083 3.47	.120 4.98			.226 9.12	.226 9.12		.318 12.52	.318 12.52					.636 22.87
4	4.50	.083 3.92	.120 5.62			.237 10.80	.237 10.80	.281 12.67	.337 15.00	.337 15.00		.437 19.02		.531 22.53	.674 27.57
4 1/2	5.0					.247 12.55			.355 17.63						.710 32.56
5	5.563	.109 6.35	.134 7.78			.258 14.63	.258 14.63		.375 20.80	.375 20.80		.500 27.06		.625 32.99	.750 38.59
6	6.625	.109 7.59	.134 9.30			.280 18.99	.280 18.99		.432 28.60	.432 28.60		.562 36.43		.718 45.39	.864 53.21
7	7.625					.301 25.56			.500 38.08						.875 63.14
8	8.625	.109 9.92	.148 14.99	.250 22.38	.277 24.78	.322 28.58	.322 28.58	.406 35.67	.500 43.43	.500 43.43	.593 51.00	.718 60.77	.812 67.82	.906 74.76	.875 72.49
9	9.625					.342 33.94			.500 48.77						
10	10.75	.134 15.21	.165 18.67	.250 28.06	.307 34.27	.365 40.52	.365 40.52	.500 54.79	.593 64.49	.500 54.79	.718 77.10	.843 89.38	1.000 104.20	1.125 115.75	
11	11.75					.375 45.60			.500 60.13						
12	12.75	.165 22.20	.180 24.19	.250 33.41	.330 43.81	.406 53.57	.375 49.61	.562 73.22	.687 88.71	.500 65.48	.843 107.42	1.000 125.61	1.125 139.80	1.312 160.42	
14	14.0		.250 36.75	.312 45.65	.375 54.62	.437 63.50	.375 54.62	.593 85.13	.750 106.23	.500 72.16	.937 130.98	1.093 150.93	1.250 170.40	1.406 189.29	
16	16.0		.250 42.09	.312 52.32	.375 62.64	.500 82.85	.375 62.64	.656 107.60	.843 136.74	.500 82.85	1.031 164.98	1.218 192.61	1.437 223.90	1.593 245.48	
18	18.0		.250 47.44	.312 58.99	.437 82.23	.562 104.76	.375 70.65	.750 138.30	.937 171.08	.500 93.54	1.156 208.15	1.375 244.37	1.562 274.50	1.781 308.79	
20	20.0		.250 52.78	.375 78.67	.500 104.23	.593 123.23	.375 78.67	.812 166.56	1.031 209.06	.500 104.23	1.280 256.34	1.500 296.65	1.750 341.40	1.968 379.53	
22	22.0		.250 58.13	.375 86.69	.500 114.92		.375 86.69	.875 197.60	1.125 251.05	.500 114.92	1.375 303.16	1.625 353.94	1.875 403.40	2.125 451.49	
24	24.0		.250 63.47	.375 94.71	.562 140.81	.687 171.45	.375 94.71	.968 238.57	1.218 296.86	.500 125.61	1.531 367.74	1.812 429.79	2.062 483.60	2.343 542.64	
26	26.0		.312 85.68	.500 136.30			.375 102.72			.500 136.30					
28	28.0		.312 92.35	.500 146.99	.625 182.90		.375 110.74			.500 146.99					
30	30.0		.312 99.02	.500 157.68	.625 196.26		.375 118.76			.500 157.68					
32	32.0		.312 105.69	.500 168.37	.625 209.62	.688 230.29	.375 126.78			.500 168.37					
34	34.0		.344 112.36	.500 179.06	.625 222.99	.688 245.00	.375 134.79			.500 179.06					
36	36.0		.312 119.03	.500 189.75	.625 236.35	.750 282.62	.375 142.81			.500 189.75					
42							.375 166.86			.500 221.82					
48							.375 190.92			.500 253.89					