

Atlas HSS Section Properties (Round) - ASTM A500

Shape	OD	Nominal Wall Thickness, t	Design Wall Thickness, td	Nominal Wt.	Area, A	D/t	I	S	r	Z	J	C	Surface Area
	(in.)	(in.)	(in.)	(lb/ft)	(in. ²)		(in. ⁴)	(in. ³)	(in.)	(in. ³)	(in. ⁴)	(in. ³)	(ft ² /ft)
HSS 12.000 x 0.625	12	0.625	0.581	76.00	20.84	20.7	341	56.8	4.05	75.8	682	113.7	3.14
HSS 12.000 x 0.500	12	0.500	0.465	61.47	16.85	25.8	281	46.8	4.08	61.9	562	93.7	3.14
HSS 12.000 x 0.375	12	0.375	0.349	46.60	12.77	34.4	217	36.2	4.12	47.4	434	72.3	3.14
HSS 12.000 x 0.313	12	0.313	0.291	39.10	10.70	41.2	184	30.7	4.15	39.9	368	61.3	3.14
HSS 12.000 x 0.250	12	0.250	0.233	31.40	8.61	51.5	149	24.8	4.16	32.3	298	49.7	3.14
HSS 11.750 x 0.625	11.75	0.625	0.581	74.33	20.4	20.2	319	54.3	3.95	72.5	638	109	3.08
HSS 11.750 x 0.500	11.75	0.500	0.465	60.13	16.5	25.3	263	44.8	3.99	59.3	526	89.5	3.08
HSS 11.750 x 0.375	11.75	0.375	0.349	45.60	12.5	33.7	203	34.6	4.03	45.4	406	69.1	3.08
HSS 11.750 x 0.313	11.75	0.313	0.291	38.21	10.48	40.4	172	29.3	4.05	38.2	344	58.6	3.08
HSS 11.750 x 0.250	11.75	0.250	0.233	30.73	8.43	50.4	140	23.8	4.08	30.9	280	47.7	3.08
HSS 10.750 x 0.625	10.75	0.625	0.581	67.65	18.6	18.5	241	44.8	3.60	60.1	482	89.7	2.81
HSS 10.750 x 0.500	10.75	0.500	0.465	54.79	15.0	23.1	199	37.0	3.64	49.2	398	74.0	2.81
HSS 10.750 x 0.375	10.75	0.375	0.349	41.59	11.4	30.8	154	28.7	3.68	37.8	308	57.3	2.81
HSS 10.750 x 0.365	10.75	0.365	0.339	40.52	11.1	31.7	150	27.9	3.68	36.8	300	55.8	2.81
HSS 10.750 x 0.313	10.75	0.313	0.291	34.87	9.56	36.9	131	24.4	3.70	31.8	262	48.7	2.81
HSS 10.750 x 0.250	10.75	0.250	0.233	28.06	7.70	46.1	106	19.7	3.71	25.8	212	39.4	2.81
HSS 10.750 x 0.188	10.75	0.188	0.174	21.17	5.78	61.8	80.9	15.1	3.74	19.5	162	30.1	2.81
HSS 10.000 x 0.625	10	0.625	0.581	62.64	17.2	17.2	191	38.2	3.33	51.6	382	76.4	2.62
HSS 10.000 x 0.500	10	0.500	0.465	50.78	13.9	21.5	159	31.8	3.38	42.3	318	63.6	2.62
HSS 10.000 x 0.375	10	0.375	0.349	38.58	10.6	28.7	123	24.6	3.41	32.5	246	49.2	2.62
HSS 10.000 x 0.313	10	0.313	0.291	32.36	8.88	34.4	105	21.0	3.44	27.4	210	42.0	2.62
HSS 10.000 x 0.250	10	0.250	0.233	26.06	7.15	42.9	85	17.0	3.45	22.2	170	34.0	2.62
HSS 10.000 x 0.188	10	0.188	0.174	19.67	5.37	57.5	64.8	13.0	3.47	16.8	130	26.0	2.62
HSS 9.625 x 0.625	9.625	0.625	0.581	60.13	16.5	16.6	169	35.1	3.20	47.6	338	70.2	2.52
HSS 9.625 x 0.500	9.625	0.500	0.465	48.77	13.4	20.7	141	29.3	3.24	39.0	282	58.6	2.52
HSS 9.625 x 0.375	9.625	0.375	0.349	37.08	10.2	27.6	110	22.9	3.28	30.0	220	45.7	2.52
HSS 9.625 x 0.342	9.625	0.342	0.318	33.94	9.30	30.3	101	21.0	3.30	27.6	202	42.0	2.52
HSS 9.625 x 0.313	9.625	0.313	0.291	31.11	8.53	33.1	93.0	19.3	3.30	25.4	186	38.6	2.52
HSS 9.625 x 0.250	9.625	0.250	0.233	25.06	6.87	41.3	75.9	15.8	3.32	20.6	152	31.6	2.52

Atlas HSS Section Properties (Round) - ASTM A500

Shape	OD	Nominal Wall Thickness, t	Design Wall Thickness, td	Nominal Wt.	Area, A	D/t	I	S	r	Z	J	C	Surface Area
	(in.)	(in.)	(in.)	(lb/ft)	(in. ²)		(in. ⁴)	(in. ³)	(in.)	(in. ³)	(in. ⁴)	(in. ³)	(ft ² /ft)
HSS 8.625 x 0.625	8.625	0.625	0.581	53.45	14.7	14.8	119	27.6	2.85	37.7	238	55.2	2.26
HSS 8.625 x 0.500	8.625	0.500	0.465	43.43	11.9	18.5	100	23.2	2.90	31.0	200	46.4	2.26
HSS 8.625 x 0.375	8.625	0.375	0.349	33.07	9.07	24.7	77.8	18.0	2.93	23.9	156	36.2	2.26
HSS 8.625 x 0.322	8.625	0.322	0.299	28.58	7.82	28.8	67.9	15.7	2.95	20.7	136	31.5	2.26
HSS 8.625 x 0.313	8.625	0.313	0.291	27.81	7.62	29.6	66.2	15.4	2.95	20.2	132	30.6	2.26
HSS 8.625 x 0.250	8.625	0.250	0.233	22.38	6.14	37.0	54.1	12.5	2.97	16.4	108	25.0	2.26
HSS 8.625 x 0.188	8.625	0.188	0.174	16.91	4.62	49.6	41.3	9.58	2.99	12.4	82.6	19.2	2.26
HSS 7.500 x 0.625	7.5	0.625	0.581	45.93	12.63	12.9	76.1	20.3	2.45	27.9	152.0	40.5	1.96
HSS 7.500 x 0.500	7.5	0.500	0.465	37.42	10.28	16.1	63.9	17.0	2.49	23.0	127.8	34.1	1.96
HSS 7.500 x 0.375	7.5	0.375	0.349	28.56	7.84	21.5	50.2	13.39	2.53	17.9	100.4	26.8	1.96
HSS 7.500 x 0.313	7.5	0.313	0.291	24.05	6.59	25.8	42.9	11.44	2.55	15.1	85.8	22.9	1.96
HSS 7.500 x 0.250	7.5	0.250	0.233	19.38	5.32	32.2	35.2	9.39	2.57	12.3	70.4	18.8	1.96
HSS 7.250 x 0.625	7.25	0.625	0.581	44.26	12.17	12.5	68.2	18.8	2.37	25.9	136.0	37.5	1.90
HSS 7.250 x 0.500	7.25	0.500	0.465	36.08	9.91	15.6	57.3	15.8	2.40	21.4	114.6	31.6	1.90
HSS 7.250 x 0.375	7.25	0.375	0.349	27.56	7.57	20.8	45.2	12.47	2.44	16.6	90.4	24.9	1.90
HSS 7.250 x 0.313	7.25	0.313	0.291	23.21	6.36	24.9	38.6	10.65	2.46	14.1	77.2	21.3	1.90
HSS 7.250 x 0.250	7.25	0.250	0.233	18.71	5.14	31.1	31.6	8.72	2.48	11.5	63.2	17.4	1.90
HSS 7.000 x 0.500	7	0.500	0.465	34.74	9.55	15.1	51.2	14.6	2.32	19.9	102.0	29.1	1.83
HSS 7.000 x 0.375	7	0.375	0.349	26.56	7.29	20.1	40.4	11.5	2.35	15.5	80.8	23.1	1.83
HSS 7.000 x 0.313	7	0.313	0.291	22.34	6.13	24.1	34.6	9.89	2.38	13.1	69.2	19.8	1.83
HSS 7.000 x 0.250	7	0.250	0.233	18.04	4.95	30.0	28.4	8.11	2.40	10.7	56.8	16.2	1.83
HSS 7.000 x 0.188	7	0.188	0.175	13.69	3.75	40.0	21.9	6.26	2.42	8.2	43.8	12.5	1.83

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Shape	OD	Nominal Wall Thickness, t	Design Wall Thickness, td	Nominal Wt.	Area, A	D/t	I	S	r	Z	J	C	Surface Area
	(in.)	(in.)	(in.)	(lb/ft)	(in. ²)		(in. ⁴)	(in. ³)	(in.)	(in. ³)	(in. ⁴)	(in. ³)	(ft ² /ft)
HSS 6.625 x 0.500	6.625	0.500	0.465	32.74	9.00	14.2	42.9	13.0	2.18	17.7	85.8	25.9	1.73
HSS 6.625 x 0.432	6.625	0.432	0.402	28.60	7.86	16.5	38.2	11.5	2.20	15.6	76.4	23.1	1.73
HSS 6.625 x 0.375	6.625	0.375	0.349	25.06	6.88	19.0	34.0	10.3	2.22	13.8	68.0	20.5	1.73
HSS 6.625 x 0.313	6.625	0.313	0.291	21.09	5.79	22.8	29.1	8.78	2.24	11.7	58.2	17.6	1.73
HSS 6.625 x 0.280	6.625	0.280	0.260	18.99	5.20	25.5	26.4	7.97	2.25	10.5	52.8	15.9	1.73
HSS 6.625 x 0.250	6.625	0.250	0.233	17.04	4.68	28.4	23.9	7.22	2.26	9.52	47.8	14.4	1.73
HSS 6.625 x 0.188	6.625	0.188	0.174	12.90	3.53	38.1	18.4	5.55	2.28	7.24	36.8	11.1	1.73
HSS 6.625 x 0.134	6.625	0.134	0.125	9.30	2.55	53.0	13.5	4.08	2.30	5.28	27.0	8.15	1.73
HSS 6.000 x 0.500	6	0.500	0.465	29.40	8.09	12.9	31.2	10.40	1.96	14.3	62.4	20.8	1.57
HSS 6.000 x 0.375	6	0.375	0.349	22.55	6.20	17.2	24.8	8.27	2.00	11.2	49.6	16.5	1.57
HSS 6.000 x 0.313	6	0.313	0.291	19.00	5.22	20.6	21.3	7.10	2.02	9.5	42.6	14.2	1.57
HSS 6.000 x 0.250	6	0.250	0.233	15.37	4.22	25.8	17.6	5.87	2.04	7.8	35.2	11.7	1.57
HSS 6.000 x 0.188	6	0.188	0.175	11.68	3.20	34.3	13.6	4.53	2.06	5.9	27.2	9.1	1.57
HSS 6.000 x 0.134	6	0.134	0.125	8.40	2.31	48.0	10.0	3.33	2.08	4.3	20.0	6.7	1.57
HSS 6.000 x 0.125	6	0.188	0.175	11.68	3.20	34.3	13.6	4.53	2.06	5.9	27.2	9.1	1.57
HSS 5.563 x 0.500	5.563	0.500	0.465	27.06	7.45	12.0	24.4	8.77	1.81	12.1	48.8	17.5	1.46
HSS 5.563 x 0.375	5.563	0.375	0.349	20.80	5.72	15.9	19.5	7.01	1.85	9.50	39.0	14.0	1.46
HSS 5.563 x 0.313	5.563	0.313	0.291	17.54	4.82	19.1	16.8	6.04	1.87	8.10	33.6	12.1	1.46
HSS 5.563 x 0.258	5.563	0.258	0.240	14.63	4.01	23.2	14.2	5.11	1.88	6.80	28.4	10.2	1.46
HSS 5.563 x 0.250	5.563	0.250	0.233	14.20	3.90	23.9	13.9	5.00	1.89	6.62	27.8	9.99	1.46
HSS 5.563 x 0.188	5.563	0.188	0.174	10.77	2.95	32.0	10.7	3.85	1.90	5.05	21.4	7.69	1.46
HSS 5.563 x 0.134	5.563	0.134	0.125	7.78	2.14	44.5	7.90	2.84	1.92	3.70	15.8	5.68	1.46
HSS 5.500 x 0.500	5.5	0.500	0.465	26.73	7.36	11.8	23.51	8.55	1.79	11.82	47.0	17.09	1.44
HSS 5.500 x 0.375	5.5	0.375	0.349	20.55	5.65	15.8	18.82	6.84	1.83	9.27	37.6	13.67	1.44
HSS 5.500 x 0.313	5.5	0.313	0.291	17.33	4.76	18.9	16.20	5.89	1.84	7.90	32.4	11.78	1.44
HSS 5.500 x 0.250	5.5	0.250	0.233	14.03	3.86	23.6	13.40	4.87	1.86	6.47	26.8	9.75	1.44
HSS 5.500 x 0.188	5.5	0.188	0.174	10.65	2.91	31.6	10.33	3.76	1.88	4.94	20.7	7.53	1.44
HSS 5.500 x 0.134	5.5	0.134	0.125	7.69	2.11	44.0	7.63	2.77	1.90	3.61	15.3	5.56	1.44
HSS 5.500 x 0.125	5.5	0.125	0.116	7.18	1.96	47.4	7.11	2.59	1.90	3.36	14.2	5.16	1.44

Atlas HSS Section Properties (Round) - ASTM A500

Shape	OD	Nominal Wall Thickness, t	Design Wall Thickness, td	Nominal Wt.	Area, A	D/t	I	S	r	Z	J	C	Surface Area
	(in.)	(in.)	(in.)	(lb/ft)	(in. ²)		(in. ⁴)	(in. ³)	(in.)	(in. ³)	(in. ⁴)	(in. ³)	(ft ² /ft)
HSS 5.000 x 0.500	5	0.500	0.465	24.05	6.62	10.8	17.2	6.88	1.61	9.60	34.4	13.8	1.31
HSS 5.000 x 0.375	5	0.375	0.349	18.54	5.10	14.3	13.9	5.56	1.65	7.56	27.8	11.1	1.31
HSS 5.000 x 0.313	5	0.313	0.291	15.66	4.30	17.2	12.0	4.80	1.67	6.46	24.0	9.60	1.31
HSS 5.000 x 0.250	5	0.250	0.233	12.69	3.49	21.5	9.94	3.98	1.69	5.30	19.9	7.96	1.31
HSS 5.000 x 0.188	5	0.188	0.174	9.65	2.64	28.7	7.69	3.08	1.71	4.05	15.4	6.16	1.31
HSS 5.000 x 0.134	5	0.134	0.125	6.97	1.91	40.0	5.69	2.28	1.73	2.97	11.4	4.56	1.31
HSS 5.000 x 0.125	5	0.125	0.116	6.51	1.78	43.1	5.31	2.12	1.73	2.77	10.6	4.24	1.31
HSS 4.500 x 0.375	4.5	0.375	0.349	16.54	4.55	12.9	9.87	4.39	1.47	6.03	19.7	8.76	1.18
HSS 4.500 x 0.337	4.5	0.337	0.313	15.00	4.12	14.4	9.07	4.03	1.48	5.50	18.1	8.04	1.18
HSS 4.500 x 0.313	4.5	0.313	0.291	13.99	3.85	15.5	8.56	3.80	1.49	5.16	17.1	7.60	1.18
HSS 4.500 x 0.250	4.5	0.250	0.233	11.36	3.12	19.3	7.13	3.17	1.51	4.25	14.3	6.36	1.18
HSS 4.500 x 0.237	4.5	0.237	0.220	10.80	2.96	20.5	6.79	3.02	1.51	4.03	13.6	6.04	1.18
HSS 4.500 x 0.188	4.5	0.188	0.174	8.64	2.36	25.9	5.54	2.46	1.53	3.26	11.1	4.93	1.18
HSS 4.500 x 0.134	4.5	0.134	0.125	6.25	1.72	36.0	4.11	1.83	1.55	2.39	8.22	3.65	1.18
HSS 4.500 x 0.120	4.5	0.120	0.112	5.62	1.54	40.2	3.72	1.65	1.55	2.16	7.44	3.31	1.18
HSS 4.000 x 0.318	4	0.318	0.296	12.52	3.44	13.5	5.94	2.97	1.31	4.07	11.88	5.94	1.05
HSS 4.000 x 0.250	4	0.250	0.233	10.02	2.76	17.2	4.91	2.46	1.33	3.31	9.82	4.91	1.05
HSS 4.000 x 0.226	4	0.226	0.210	9.12	2.50	19.0	4.50	2.25	1.34	3.02	9.00	4.50	1.05
HSS 4.000 x 0.188	4	0.188	0.174	7.64	2.09	23.0	3.83	1.92	1.35	2.55	7.66	3.83	1.05
HSS 4.000 x 0.134	4	0.134	0.125	5.54	1.52	32.0	2.86	1.43	1.37	1.88	5.72	2.86	1.05
HSS 4.000 x 0.125	4	0.125	0.116	5.18	1.42	34.5	2.67	1.34	1.37	1.75	5.34	2.67	1.05
HSS 4.000 x 0.120	4	0.120	0.112	4.98	1.37	35.7	2.59	1.30	1.37	1.69	5.18	2.59	1.05
HSS 3.500 x 0.300	3.5	0.300	0.279	10.26	2.82	12.5	3.69	2.11	1.14	2.90	7.38	4.22	0.916
HSS 3.500 x 0.250	3.5	0.250	0.233	8.69	2.39	15.0	3.21	1.83	1.16	2.49	6.42	3.67	0.916
HSS 3.500 x 0.216	3.5	0.216	0.201	7.58	2.08	17.4	2.84	1.62	1.17	2.19	5.68	3.25	0.916
HSS 3.500 x 0.188	3.5	0.188	0.174	6.64	1.82	20.1	2.52	1.44	1.18	1.93	5.04	2.88	0.916
HSS 3.500 x 0.134	3.5	0.134	0.125	4.82	1.33	28.0	1.89	1.08	1.19	1.42	3.78	2.16	0.916
HSS 3.500 x 0.125	3.5	0.125	0.116	4.51	1.23	30.2	1.77	1.01	1.20	1.33	3.54	2.02	0.916
HSS 3.500 x 0.120	3.5	0.120	0.112	4.34	1.19	31.3	1.71	0.98	1.20	1.29	3.42	1.95	0.916

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	(in.)	(in.)	(in.)	(lb/ft)	(in. ²)		(in. ⁴)	(in. ³)	(in.)	(in. ³)	(in. ⁴)	(in. ³)	(ft ² /ft)
HSS 3.000 x 0.250	3	0.250	0.233	7.35	2.03	12.9	1.95	1.30	0.980	1.79	3.90	2.60	0.785
HSS 3.000 x 0.188	3	0.188	0.174	5.64	1.54	17.2	1.55	1.03	1.00	1.39	3.10	2.07	0.785
HSS 3.000 x 0.134	3	0.134	0.125	4.11	1.13	24.0	1.17	0.780	1.02	1.034	2.34	1.56	0.785
HSS 3.000 x 0.125	3	0.125	0.116	3.84	1.05	25.9	1.09	0.727	1.02	0.965	2.18	1.45	0.785
HSS 2.875 x 0.276	2.875	0.276	0.257	7.67	2.11	11.2	1.83	1.27	0.931	1.77	3.66	2.55	0.753
HSS 2.875 x 0.250	2.875	0.250	0.233	7.02	1.93	12.3	1.70	1.18	0.939	1.63	3.40	2.37	0.753
HSS 2.875 x 0.203	2.875	0.203	0.189	5.80	1.59	15.2	1.45	1.01	0.955	1.37	2.90	2.02	0.753
HSS 2.875 x 0.188	2.875	0.188	0.174	5.39	1.48	16.5	1.35	0.939	0.955	1.27	2.70	1.88	0.753
HSS 2.875 x 0.134	2.875	0.134	0.125	3.93	1.08	23.0	1.023	0.712	0.973	0.946	2.05	1.43	0.753
HSS 2.875 x 0.125	2.875	0.125	0.116	3.67	1.01	24.8	0.958	0.666	0.974	0.884	1.92	1.34	0.753
HSS 2.875 x 0.120	2.875	0.120	0.112	3.53	0.97	25.7	0.929	0.646	0.979	0.855	1.86	1.29	0.753
HSS 2.75 x 0.250	2.75	0.250	0.233	6.68	1.84	11.8	1.472	1.071	0.894	1.480	2.94	2.14	0.720
HSS 2.75 x 0.188	2.75	0.188	0.175	5.15	1.42	15.7	1.179	0.857	0.911	1.162	2.36	1.72	0.720
HSS 2.75 x 0.134	2.75	0.134	0.125	3.75	1.03	22.0	0.890	0.647	0.930	0.862	1.78	1.29	0.720
HSS 2.75 x 0.125	2.75	0.125	0.116	3.51	0.96	23.7	0.834	0.607	0.932	0.805	1.67	1.21	0.720
HSS 2.75 x 0.100	2.75	0.100	0.093	2.83	0.78	29.6	0.686	0.499	0.938	0.657	1.37	1.00	0.720
HSS 2.500 x 0.250	2.5	0.250	0.233	6.01	1.66	10.7	1.08	0.864	0.807	1.20	2.16	1.73	0.654
HSS 2.500 x 0.188	2.5	0.188	0.174	4.64	1.27	14.4	0.865	0.692	0.825	0.943	1.73	1.38	0.654
HSS 2.500 x 0.134	2.5	0.134	0.125	3.39	0.933	20.0	0.659	0.527	0.840	0.706	1.32	1.056	0.654
HSS 2.500 x 0.125	2.5	0.125	0.116	3.17	0.869	21.6	0.619	0.495	0.844	0.660	1.24	0.992	0.654
HSS 2.500 x 0.100	2.5	0.100	0.093	2.57	0.703	26.9	0.510	0.408	0.852	0.539	1.02	0.816	0.654
HSS 2.375 x 0.250	2.375	0.250	0.233	5.68	1.57	10.2	0.910	0.766	0.761	1.07	1.82	1.53	0.622
HSS 2.375 x 0.218	2.375	0.218	0.203	5.03	1.39	11.7	0.824	0.694	0.770	0.960	1.65	1.39	0.622
HSS 2.375 x 0.188	2.375	0.188	0.174	4.38	1.20	13.6	0.733	0.617	0.782	0.845	1.47	1.24	0.622
HSS 2.375 x 0.154	2.375	0.154	0.143	3.66	1.00	16.6	0.627	0.528	0.792	0.713	1.25	1.05	0.622
HSS 2.375 x 0.134	2.375	0.134	0.125	3.21	0.884	19.0	0.561	0.472	0.797	0.633	1.12	0.943	0.622
HSS 2.375 x 0.125	2.375	0.125	0.116	3.01	0.823	20.5	0.527	0.444	0.800	0.592	1.05	0.884	0.622
HSS 2.375 x 0.109	2.375	0.109	0.101	2.64	0.722	23.5	0.467	0.393	0.804	0.523	0.93	0.783	0.622

Atlas HSS Section Properties (Round) - ASTM A500

Shape	OD	Nominal Wall Thickness, t	Design Wall Thickness, td	Nominal Wt.	Area, A	D/t	I	S	r	Z	J	C	Surface Area
	(in.)	(in.)	(in.)	(lb/ft)	(in. ²)		(in. ⁴)	(in. ³)	(in.)	(in. ³)	(in. ⁴)	(in. ³)	(ft ² /ft)
HSS 2.250 x 0.188	2.25	0.188	0.174	4.13	1.13	12.9	0.616	0.548	0.738	0.752	1.23	1.09	0.589
HSS 2.250 x 0.134	2.25	0.134	0.125	3.03	0.834	18.0	0.473	0.420	0.753	0.565	0.946	0.841	0.589
HSS 2.250 x 0.125	2.25	0.125	0.116	2.84	0.778	19.4	0.444	0.395	0.755	0.529	0.888	0.789	0.589
HSS 2.000 x 0.250	2	0.250	0.233	4.68	1.293	8.6	0.514	0.514	0.630	0.732	1.028	1.028	0.524
HSS 2.000 x 0.188	2	0.188	0.175	3.64	1.003	11.4	0.422	0.422	0.649	0.585	0.844	0.844	0.524
HSS 2.000 x 0.134	2	0.134	0.125	2.67	0.736	16.0	0.325	0.325	0.665	0.440	0.650	0.650	0.524
HSS 2.000 x 0.125	2	0.125	0.116	2.51	0.687	17.2	0.306	0.306	0.667	0.412	0.612	0.612	0.524
HSS 2.000 x 0.100	2	0.100	0.093	2.03	0.557	21.5	0.254	0.254	0.675	0.338	0.508	0.508	0.524
HSS 1.900 x 0.200	1.9	0.200	0.186	3.63	1.002	10.2	0.372	0.392	0.609	0.549	0.744	0.783	0.497
HSS 1.900 x 0.188	1.9	0.188	0.174	3.43	0.943	10.9	0.355	0.374	0.614	0.520	0.710	0.747	0.497
HSS 1.900 x 0.145	1.9	0.145	0.135	2.72	0.749	14.1	0.293	0.308	0.625	0.421	0.586	0.617	0.497
HSS 1.900 x 0.134	1.9	0.134	0.125	2.53	0.697	15.2	0.276	0.291	0.629	0.394	0.552	0.581	0.497
HSS 1.900 x 0.125	1.9	0.125	0.116	2.37	0.650	16.4	0.260	0.274	0.632	0.370	0.520	0.547	0.497
HSS 1.900 x 0.109	1.9	0.109	0.101	2.09	0.571	18.8	0.232	0.244	0.637	0.327	0.464	0.488	0.497
HSS 1.900 x 0.100	1.9	0.100	0.093	1.92	0.528	20.4	0.216	0.227	0.640	0.304	0.432	0.455	0.497
HSS 1.660 x 0.191	1.66	0.191	0.178	3.00	0.829	9.3	0.231	0.278	0.528	0.393	0.462	0.557	0.435
HSS 1.660 x 0.140	1.66	0.140	0.130	2.27	0.625	12.8	0.184	0.222	0.543	0.305	0.368	0.443	0.435
HSS 1.660 x 0.134	1.66	0.134	0.125	2.19	0.603	13.3	0.179	0.216	0.545	0.295	0.358	0.431	0.435
HSS 1.660 x 0.125	1.66	0.125	0.116	2.05	0.563	14.3	0.169	0.204	0.548	0.277	0.338	0.407	0.435
HSS 1.660 x 0.109	1.66	0.109	0.101	1.81	0.495	16.4	0.151	0.182	0.552	0.246	0.302	0.364	0.435
HSS 1.660 x 0.100	1.66	0.100	0.093	1.67	0.458	17.8	0.141	0.170	0.555	0.229	0.282	0.340	0.435
HSS 1.500 x 0.134	1.5	0.134	0.125	1.96	0.540	12.0	0.129	0.172	0.489	0.237	0.258	0.344	0.393
HSS 1.500 x 0.125	1.5	0.125	0.116	1.84	0.504	12.9	0.122	0.163	0.492	0.223	0.244	0.325	0.393
HSS 1.500 x 0.100	1.5	0.100	0.093	1.50	0.411	16.1	0.102	0.136	0.498	0.184	0.204	0.272	0.393

Atlas HSS Section Properties (Round) - ASTM A500

Shape	OD	Nominal Wall Thickness, t	Design Wall Thickness, td	Nominal Wt.	Area, A	D/t	I	S	r	Z	J	C	Surface Area
	(in.)	(in.)	(in.)	(lb/ft)	(in. ²)		(in. ⁴)	(in. ³)	(in.)	(in. ³)	(in. ⁴)	(in. ³)	(ft ² /ft)
HSS 1.315 x 0.179	1.315	0.179	0.166	2.17	0.599	7.9	0.101	0.154	0.411	0.221	0.202	0.307	0.344
HSS 1.315 x 0.133	1.315	0.133	0.124	1.68	0.464	10.6	0.083	0.126	0.423	0.177	0.166	0.252	0.344
HSS 1.315 x 0.125	1.315	0.125	0.116	1.59	0.437	11.3	0.079	0.120	0.425	0.167	0.158	0.240	0.344
HSS 1.315 x 0.109	1.315	0.109	0.101	1.41	0.385	13.0	0.071	0.108	0.429	0.149	0.142	0.216	0.344
HSS 1.050 x 0.113	1.05	0.113	0.105	1.13	0.312	10.0	0.035	0.067	0.335	0.094	0.070	0.133	0.275
HSS 0.840 x 0.109	0.84	0.109	0.101	0.85	0.234	8.3	0.016	0.038	0.261	0.056	0.032	0.076	0.220