



ESP SPECIALTY STEEL PRODUCTS

888-377-4317

(National Toll-Free Number)

Your Inventory Support Center for Stainless Long Products

Stainless Product Inventory



**Stock Items Shipped
Within 24 hours**

*Saw Cutting, Polishing and
Custom Labeling/ Packaging Available*

Perforated Sheets and Expanded Metal

PERFORATED SHEETS

304/316, Carbon Steel, Galvanized and Aluminum
Sizes; 11 to 22 gauge in many of the standard
hole sizes. Sheet sizes; 4'x8' and 4'x10'

EXPANDED METAL

304/316, Carbon Steel, Galvanized and Aluminum
Sizes; 1/2, 3/4 & 1-1/2
Sheet sizes; 4'x8' and 4'x10'



ROUND BARS

303, 304/304L, 316/316L, 321, 347, 410 Ann, 410 QDT,
416 Ann, 420 Ann, 420 Modified, 440C, 17-4 PH Cond. A,
17-4 DBL H 1150

Sizes: 1/8" - 24"

HALF ROUNDS

304/304L

T-BAR

304/304L

PUMP SHAFT QUALITY

316/316L, 416

ACCURACY/BSQ

303, 304/304L

HEX & SQUARE BARS

303, 304/304L, 316/316L, 416, 17-4

Sizes: Hex - 1/8" to 4"; Square - 1/8" to 6"

OVERSIZE ROUNDS

303, 304/304L, 316/316L, 416

FLATS

303-CD, 304/304L HRAP, 316/316L HRAP, 17-4 HRAP

Sizes: 1/8" X 6" through 4" X 8"

TREAD PLATE

304

UNEQUAL LEG ANGLES / CHANNELS

304/304L, 316/316L

I-BEAM

304/304L, 316/316L

WIDE FLANGE BEAMS

304/304L, 316/316L

Stocking Locations

HOUSTON • CHICAGO

www.espsteel.com





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HARDNESS CONVERSION NUMBERS FOR STEEL

BRINELL 3000 kg. Load 10 mm. Ball		Rockwell				SHORE SCLERO- SCOPE	TENSILE STRENGTH psi (Approx.)
Diameter Millimeters	Hardness Number	A Scale	B Scale	C Scale	15-N Scale psi		
2.25	745	84.1	—	65.3	92.3	91	—
2.30	712	—	—	—	—	—	—
2.35	682	82.2	—	61.7	91.0	84	—
2.40	653	81.2	—	60.0	90.2	81	—
2.45	627	80.5	—	58.7	89.6	79	—
2.50	601	79.8	—	57.3	89.9	77	—
2.55	578	79.1	—	56.0	88.4	75	—
2.60	555	78.4	—	54.7	87.8	73	298000
2.65	534	77.8	—	53.5	87.2	71	288000
2.70	514	76.9	—	52.1	86.5	70	274000
2.75	495	76.3	—	51.0	85.9	68	264000
2.80	477	75.6	—	49.6	85.3	66	252000
2.85	461	74.9	—	48.5	84.7	65	242000
2.90	444	74.2	—	47.1	84.0	63	230000
2.95	429	73.4	—	45.7	83.4	61	219000
3.00	415	72.8	—	44.5	82.8	59	212000
3.05	401	72.0	—	43.1	82.0	58	202000
3.10	388	71.4	—	41.8	81.4	56	193000
3.15	375	70.6	—	40.4	80.6	54	184000
3.20	363	70.0	—	39.1	80.0	52	177000
3.25	352	69.3	110.0	37.9	79.3	51	170000
3.30	341	68.7	109.0	36.6	78.6	50	163000
3.35	331	68.1	108.5	35.5	78.0	48	158000
3.40	321	67.5	108.8	34.3	77.3	47	152000
3.45	311	66.9	107.5	33.1	76.7	46	147000
3.50	302	66.3	107.0	32.1	76.1	45	143000
3.55	293	65.7	106.0	30.9	75.5	43	139000
3.60	285	65.3	105.5	29.9	75.0	—	136000
3.65	277	64.6	104.5	28.8	74.4	41	131000
3.70	269	64.1	104.0	27.6	73.7	40	128000
3.75	262	63.6	103.0	26.6	73.1	39	125000
3.80	255	63.0	102.0	25.4	72.5	38	121000
3.85	248	62.5	101.0	24.0	71.7	37	118000
3.90	241	61.8	100.0	22.8	70.9	36	114000
3.95	235	61.4	99.0	21.7	70.3	35	111000
4.00	229	60.8	96.2	20.5	69.7	34	109000
4.05	223	—	97.3	18.8	—	—	104000
4.10	217	—	96.4	17.5	—	33	103000
4.15	212	—	95.5	16.0	—	—	100000
4.20	207	—	94.6	15.2	—	32	99000
4.25	201	—	93.8	13.8	—	31	97000
4.30	197	—	92.8	12.7	—	30	94000
4.35	195	—	91.9	11.5	—	29	92000
4.40	187	—	90.7	10.9	—	—	90000
4.45	183	—	90.0	9.0	—	28	89000
4.50	179	—	89.0	8.0	—	27	88000
4.55	174	—	87.8	6.4	—	—	86000
4.60	170	—	86.8	5.4	—	26	84000
4.65	167	—	86.0	4.4	—	—	83000
4.70	163	—	85.0	3.3	—	25	82000
4.80	156	—	82.9	0.9	—	—	80000
4.90	149	—	80.8	—	—	23	—
5.00	143	—	78.7	—	—	22	—
5.10	137	—	76.4	—	—	21	—
5.20	131	—	74.0	—	—	—	—
5.30	126	—	72.0	—	—	20	—
5.40	121	—	69.8	—	—	19	—
5.50	116	—	67.6	—	—	18	—
5.50	111	—	65.7	—	—	15	—

FRACTION	DECIMAL	METRIC (mm)
1/64	.0156	0.396
1/32	.0312	8.793
3/64	.0468	1.190
1/16	.0625	1.587
5/65	.0781	1.985
3/32	.0937	2.381
7/64	.1093	2.778
1/8	.125	3.175
9/64	.1406	3.571
5/32	.1565	3.968
11/64	.1718	4.365
3/16	.1875	4.762
13/64	.2031	5.159
7/32	.2187	5.556
15/64	.2343	5.953
1/4	.250	6.350
17/64	.2656	6.746
9/32	.2812	7.143
19/64	.2968	7.540
5/16	.3125	7.937
21/64	.3281	8.334
11/32	.3437	8.731
23/64	.3593	9.128
3/8	.375	9.525
25/64	.3906	9.921
13/32	.4062	10.318
27/64	.4218	10.715
7/16	.4375	11.112
29/64	.4531	11.509
15/32	.4687	11.906
31/64	.4843	12.303
1/2	.500	12.700
33/64	.5156	13.096
17/32	.5312	13.493
35/64	.5468	13.890
9/16	.5625	14.287
37/64	.5781	14.684
19/32	.5937	15.081
39/64	.6083	15.478
5/8	.625	15.875
41/64	.6406	16.271
21/32	.6562	16.668
43/64	.6718	17.065
11/16	.6875	17.462
45/64	.7031	17.859
23/32	.7187	18.256
47/64	.7343	18.653
3/4	.750	19.050
49/64	.7656	19.446
25/32	.7812	19.843
51/64	.7968	20.238
13/16	.8125	20.637
53/64	.8281	21.034
27/32	.8437	21.431
55/64	.8593	21.828
7/8	.875	22.225
57/64	.8906	22.621
29/32	.9062	23.018
59/64	.9218	23.415
15/16	.9375	23.812
61/64	.9531	24.209
31/32	.9687	24.606
63/64	.9843	25.003
1	1.000	25.400