

HARDNESS CONVERSION & WEIGHT CHART

Hardness Conversion**

Rockwell "C"	Tensile Strength	Brinell (BHN)*	Rockwell "C"	Tensile Strength	Brinell (BHN)*
20	110,000 PSI	226	40	182,000 PSI	371
21	112,000 PSI	231	41	188,000 PSI	381
22	115,000 PSI	237	42	194,000 PSI	390
23	117,000 PSI	243	43	201,000 PSI	400
24	119,000 PSI	247	44	208,000 PSI	409
25	123,000 PSI	253	45	215,000 PSI	421
26	125,000 PSI	258	46	221,000 PSI	432
27	128,000 PSI	264	47	229,000 PSI	442
28	131,000 PSI	271	48	238,000 PSI	451
29	135,000 PSI	279	49	246,000 PSI	464
30	138,000 PSI	286	50	255,000 PSI	475
31	141,000 PSI	294	51	264,000 PSI	487
32	146,000 PSI	301	52	273,000 PSI	500
33	149,000 PSI	311	53	283,000 PSI	-
34	152,000 PSI	319	54	292,000 PSI	-
35	156,000 PSI	327	55	301,000 PSI	-
36	161,000 PSI	336	56	313,000 PSI	-
37	166,000 PSI	344	57	325,000 PSI	-
38	171,000 PSI	353	58	338,000 PSI	-
39	177,000 PSI	362	59	351,000 PSI	-

* Values based on Brinell 10mm Standard Ball (3000kgf).

** This conversion calculator gives approximate hardness values for various hardness scales based on the Rockwell "C" Scale. The Hardness Tensile Strength relations may vary according to the processing history or the chemical composition of the steel.

Weight Chart

Thickness of Plate	Weight Lbs Per Square Inch	Weight Lbs Per Square Foot
1/8" plate	.0365	5-1/4 #
3/16" plate	.055	8 #
1/4" plate	.073	10-1/2 #
5/16" plate	.083	12 #
3/8" plate	.108	15-1/2 #
1/2" plate	.145	20-3/4 #
5/8" plate	.180	26 #
3/4" plate	.218	31-1/4 #
1" plate	.290	41-1/2 #
1-1/4" plate	.363	52 #