

# DISCOUNT STEEL

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## Hardness Conversion Table

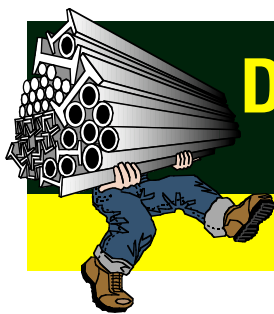
for carbon and alloy steels

Brinell Hardness (Carbide Ball)	Rockwell Hardness					Tensile Strength	
	C Scale	A Scale	15N Scale Superficial	B Scale	30T Scale Superficial	ksi	MPa
—	66	84.5	92.5	—	—	—	—
722	64	83.4	91.8	—	—	—	—
688	62	82.3	91.1	—	—	—	—
654	60	81.2	90.2	—	—	—	—
615	58	80.1	89.3	—	—	—	—
577	56	79.0	88.3	—	—	313	2160
543	54	78.0	87.4	—	—	292	2010
512	52	76.8	86.4	—	—	273	1880
481	50	75.9	85.5	—	—	255	1760
455	48	74.7	84.5	—	—	238	1640
443	47	74.1	83.9	—	—	229	1580
432	46	73.6	83.5	—	—	221	1520
421	45	73.1	83.0	—	—	215	1480
409	44	72.5	82.5	—	—	208	1430
400	43	72.0	82.0	—	—	201	1390
390	42	71.5	81.5	—	—	194	1340
381	41	70.9	80.9	—	—	188	1300
371	40	70.4	80.4	—	—	182	1250
362	39	69.9	79.9	—	—	177	1220
353	38	69.4	79.4	—	—	171	1180
344	37	68.9	78.8	—	—	166	1140
336	36	68.4	78.3	—	—	161	1110
327	35	67.9	77.7	—	—	156	1080
319	34	67.4	77.2	—	—	153	1050
311	33	66.8	76.6	—	—	149	1030
301	32	66.3	76.1	—	—	146	1010
294	31	65.8	75.6	—	—	141	970
286	30	65.3	75.0	—	—	138	950
279	29	64.6	74.5	—	—	135	930
271	28	64.3	73.9	—	—	131	900
264	27	63.8	73.3	—	—	128	880
258	26	63.3	72.8	—	—	125	860
253	25	62.8	72.2	—	—	123	850
247	24	62.4	71.6	—	—	119	820
243	23	62.0	71.0	—	—	117	810

all values are approximate

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	C Scale	A Scale	15N Scale Superficial	B Scale	30T Scale Superficial	ksi	MPa
240	—	—	—	100	83.1	116	800
234	—	—	—	99	82.5	114	785
222	—	—	—	97	81.1	104	715
210	—	—	—	95	79.8	100	690
200	—	—	—	93	78.4	94	650
195	—	—	—	92	77.8	92	635
185	—	—	—	90	76.4	89	615
176	—	—	—	88	75.1	86	590
169	—	—	—	86	73.8	83	570
162	—	—	—	84	72.4	81	560
156	—	—	—	82	71.1	77	530
150	—	—	—	80	69.7	72	495
144	—	—	—	78	68.4	69	475
139	—	—	—	76	67.1	67	460
135	—	—	—	74	65.7	65	450
130	—	—	—	72	64.4	63	435
125	—	—	—	70	63.1	61	420
121	—	—	—	68	61.7	59	405
117	—	—	—	66	60.4	57	395
114	—	—	—	64	59.0	—	—

all values are approximate