

Mechanical Properties of Steel

Condition, Strength, Hardness, Machinability

Approximate Hardness Conversions for Steel

Tensile Strength (Approx.) Ksi	Rockwell Hardness No.		Brinell Hardness No.
	B Scale	C Scale	
56	65.7	-	111
60	69.8	-	121
65	74.0	-	131
71	78.7	-	143
76	82.9	-	156
81	86.0	-	167
85	87.8	-	174
90	90.7	-	187
95	92.8	-	197
100	94.6	-	207
105	96.4	-	217
110	97.8	20	226
114	99.0	22	237
117	100.0	23	243
120	-	24	247
122	-	25	253
125	-	26	258
128	-	27	264
132	-	28	271
135	-	29	279
138	-	30	286
142	-	31	294
145	-	32	301
149	-	33	311
153	-	34	319
157	-	35	327
162	-	36	336
168	-	37	344
171	-	38	353
176	-	39	362
181	-	40	371
188	-	41	381
194	-	42	390
201	-	43	400
208	-	44	409
215	-	45	421
222	-	46	432