

# TOOLING APPLICATION APPROXIMATIVE HARDNESS CONVERSION TABLE

Vickers Hardness HV F <sup>3</sup> 98,1 N	Brinell Hardness HB	Rockwell A Hardness HRA	Rockwell B Hardness HRB	Rockwell C Hardness HRC	UTS (N/mm <sup>2</sup> , MPa)	Vickers Hardness HV F <sup>3</sup> 98,1 N	Brinell Hardness HB	Rockwell A Hardness HRA	Rockwell C Hardness HRC	UTS (N/mm <sup>2</sup> , MPa)
80	76.0	-	-	-	260	350	332.5	68.1	35.5	1160
85	80.7	-	-	-	280	360	342.0	68.7	36.6	1190
90	85.5	-	-	-	300	370	351.5	69.2	37.7	1220
95	90.2	-	-	-	310	380	361.0	69.8	38.8	1260
100	95.0	-	-	-	330	390	370.5	70.3	39.8	1290
105	99.8	-	-	-	350	400	380.0	70.8	40.8	1320
110	104.5	-	62.0	-	360	410	389.5	71.4	41.8	1360
115	109.3	-	64.6	-	380	420	399.0	71.8	42.7	1390
120	114.0	-	67.0	-	400	430	408.5	72.0	43.6	1420
125	118.8	-	69.0	-	410	440	418.0	72.3	44.5	1450
130	123.5	-	71.0	-	430	450	423.0	73.3	45.3	1490
135	128.3	-	73.1	-	450	460	432.0	73.6	46.1	1520
140	133.0	-	75.1	-	460	470	442.0	74.1	46.9	1550
145	137.8	-	77.0	-	480	480	450.0	74.5	47.7	1590
150	142.5	-	78.8	-	500	490	456.0	74.9	48.4	1620
155	147.3	-	80.5	-	510	500	466.0	75.3	49.1	1650
160	152.0	-	82.1	-	530	510	475.0	75.7	49.8	1680
165	156.8	-	83.5	-	550	520	483.0	76.1	50.5	1720
170	161.5	-	85.0	-	560	530	492.0	76.4	51.1	1750
175	166.3	-	86.1	-	580	540	500.0	76.7	51.7	1790
180	171.0	-	87.3	-	590	550	509.0	77.0	52.3	1820
185	175.8	-	88.5	-	610	560	517.0	77.4	53.0	1850
190	180.5	-	89.6	-	630	570	526.0	77.8	53.6	1880
195	185.3	-	90.7	-	640	580	535.0	78.0	54.1	1920
200	190.0	-	91.8	-	660	590	543.0	78.4	54.7	1950
205	194.8	-	92.8	-	680	600	552.0	78.6	55.2	1980
210	199.5	-	93.7	-	690	610	560.0	78.9	55.7	2020
215	204.3	-	94.6	-	710	620	569.0	79.2	56.3	2050
220	209.0	-	95.5	-	730	630	577.0	79.5	56.8	2080
225	213.8	-	96.3	-	740	640	586.0	79.8	57.3	2120
230	218.5	-	-	-	760	650	-	80.0	57.8	2140
235	223.3	-	-	-	780	660	-	80.3	58.3	-
240	228.0	60.7	-	20.3	790	670	-	80.6	58.8	-
245	232.8	61.2	-	21.3	810	680	-	80.8	59.2	-
250	235.5	61.6	-	22.2	830	690	-	81.1	59.7	-
255	242.2	62.0	-	23.1	840	700	-	81.3	60.1	-
260	247.0	62.4	-	24.0	860	720	-	81.8	61.0	-
265	251.7	62.7	-	24.8	880	740	-	82.2	61.8	-
270	256.5	63.1	-	25.6	890	760	-	82.6	62.5	-
275	261.2	63.5	-	26.4	910	780	-	83.0	63.3	-
280	266.0	63.8	-	27.1	930	800	-	83.4	64.0	-
285	270.7	64.2	-	27.8	950	820	-	83.8	64.7	-
290	275.5	64.5	-	28.5	960	840	-	84.1	65.3	-
295	280.2	64.8	-	29.2	970	860	-	84.4	65.9	-
300	285.0	65.2	-	29.8	990	880	-	84.7	66.4	-
310	294.5	65.8	-	31.0	1030	900	-	85.0	67.0	-
320	304.0	66.4	-	32.2	1060	920	-	85.3	67.5	-
330	313.5	67.0	-	33.3	1090	940	-	85.6	68.0	-
340	323.0	67.6	-	34.4	1120	-	-	-	-	-

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