

HARDNESS CONVERSION TABLE

Vickers Hardness No.	Brinell Hardness No. 3000 Kg Load 10mm Ball		Rockwell Hardness No.				Rockwell Superficial Hardness No. Superficial Brale Indenter			Tensile Strength (Approx.) MPa	Tensile Strength (Approx.) ksi
	Standard Ball	Tungsten Carbide Ball	A Scale 60 Kg Load Brale Indenter	B Scale 150 Kg Load-Brale Indenter	C Scale 150 Kg Load-Brale Indenter	D Scale 100 Kg Load-Brale Indenter	15M Scale 15 Kg Load	30M Scale 30 Kg Load	45M Scale 45 Kg Load		
520	(480)	488	76.1		50.5	63.5	85.7	69.0	55.6	1793	260
510	(473)	479	75.7		49.8	62.9	85.4	68.3	54.7	1751	254
500	(465)	471	75.3		49.1	62.2	85.0	67.7	53.9	1703	247
490	(456)	460	74.9		48.4	61.6	84.7	67.1	53.1	1662	241
480	(448)	452	74.5		47.7	61.3	84.3	66.4	52.2	1620	235
470	441	442	74.1		46.9	60.7	83.9	65.7	51.3	1572	228
460	433	433	73.6		46.1	60.1	83.6	64.9	50.4	1538	223
450	425	425	73.3		45.3	59.4	83.2	64.3	49.4	1496	217
440	415	415	72.8		44.5	58.8	82.8	63.5	48.4	1462	212
430	405	405	72.3		43.6	58.2	82.3	62.7	47.4	1413	205
420	397	397	71.8		42.7	57.5	81.8	61.9	46.4	1372	199
410	388	388	71.4		41.8	56.6	81.4	61.1	45.3	1331	193
400	379	379	70.8		40.8	56.0	80.8	60.2	44.1	1289	187
390	369	369	70.3		39.8	55.2	80.3	59.3	42.9	1248	181
380	360	360	69.8	(110.0)	38.8	54.4	79.8	58.4	41.7	1207	175
370	350	350	69.2		37.7	53.6	79.2	57.4	40.4	1172	170
360	341	341	68.7	(109.0)	36.6	52.8	78.6	56.4	39.1	1131	164
350	331	331	68.1		35.5	51.9	78.0	55.4	37.8	1096	159
340	322	322	67.6	(108.0)	34.4	51.1	77.4	54.4	36.5	1069	155
330	313	313	67.0		33.3	50.2	76.8	53.6	35.2	1034	150
320	303	303	66.4	(107.0)	32.2	49.4	76.2	52.3	33.9	1007	146
310	294	294	65.8		31.0	48.4	75.6	51.3	32.5	979	142
300	284	284	65.2	(105.5)	29.8	47.5	74.9	50.2	31.1	951	138
295	280	280	64.8		29.2	47.1	74.6	49.7	30.4	938	136
290	275	275	64.5	(104.5)	28.5	46.5	74.2	49.0	29.5	917	133
285	270	270	64.2		27.8	46.0	73.8	48.4	28.7	903	131
280	265	265	63.8	(103.5)	27.1	45.3	73.4	47.8	27.9	899	130
275	261	261	63.5		26.4	44.9	73.0	47.2	27.1	876	127
270	256	256	63.1	(102.0)	25.6	44.3	72.6	46.4	26.2	855	124
265	252	252	62.7		24.8	43.7	72.1	45.7	25.2	841	122
260	247	247	62.4	(101.0)	24.0	43.1	71.6	45.0	24.3	827	120
255	243	243	62.0		23.1	42.2	71.1	44.2	23.2	807	117
250	238	238	61.6	99.5	22.2	41.7	70.6	43.4	22.2	793	115
245	233	233	61.2		21.3	41.1	70.1	42.5	21.1	779	113
240	228	228	60.7	98.1	20.3	40.3	69.6	41.7	19.9	765	111
230	219	219		96.7	(18.0)					731	106
220	209	209		95.0	(15.7)					696	101
210	200	200		93.4	(13.4)					669	97
200	190	190		91.5	(11.0)					634	92
190	181	181		89.5	(8.5)					607	88
180	171	171		87.1	(6.0)					579	84
170	162	162		85.0	(3.0)					545	79
160	152	152		81.7	(0.0)					517	75
150	143	143		78.7						490	71
140	133	133		75.0						455	66
130	124	124		71.2						427	62
120	114	114		66.7						393	57
110	105	105		62.3							
100	95	95		56.2							
95	90	90		52.0							
90	86	86		48.0							
85	81	81		41.0							