



# Hardness Conversion Table

Tensile Strength (N/mm <sup>2</sup> )	Brinell Hardness (BHN)	Vickers Hardness (HV)	Rockwell Hardness (HRB)	Rockwell Hardness (HRC)
285	86	90		
320	95	100	56.2	
350	105	110	62.3	
385	114	120	66.7	
415	124	130	71.2	
450	133	140	75.0	
480	143	150	78.7	
510	152	160	81.7	
545	162	170	85.0	
575	171	180	87.1	
610	181	190	89.5	
640	190	200	91.5	
675	199	210	93.5	
705	209	220	95.0	
740	219	230	96.7	
770	228	240	98.1	
800	238	250	99.5	
820	242	255		23.1
850	252	265		24.8
880	261	275		26.4
900	266	280		27.1
930	276	290		28.5
950	280	295		29.2
995	295	310		31.0
1030	304	320		32.2
1060	314	330		33.3
1095	323	340		34.4
1125	333	350		35.5
1155	342	360		36.6

Tensile Strength (N/mm <sup>2</sup> )	Brinell Hardness (BHN)	Vickers Hardness (HV)	Rockwell Hardness (HRB)	Rockwell Hardness (HRC)
1190	352	370		37.7
1220	361	380		38.8
1255	371	390		39.8
1290	380	400		40.8
1320	390	410		41.8
1350	399	420		42.7
1385	409	430		43.6
1420	418	440		44.5
1455	428	450		45.3
1485	437	460		46.1
1520	447	470		46.9
1555	456	480		47.7
1595	466	490		48.4
1630	475	500		49.1
1665	485	510		49.8
1700	494	520		50.5
1740	504	530		51.1
1775	513	540		51.7
1810	523	550		52.3
1845	532	560		53.0
1880	542	570		53.6
1920	551	580		54.1
1955	561	590		54.7
1995	570	600		55.2
2030	580	610		55.7
2070	589	620		56.3
2105	599	630		56.8
2145	608	640		57.3
2180	618	650		57.8