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Hardness Conversion Chart

Brinell			Tensile Strength				Sclerscope Hardness Number	Rockwell		Diamond Pyramid Scale
Dia. Imp. for 10mm Ball	Carbide Ball	Standard Ball	Tons/inch <sup>2</sup>	1000lb/inch <sup>2</sup>	kg/mm <sup>2</sup>	Mpa N/mm <sup>2</sup>	Hardness Number	"A" Scale	"C" Scale	HV10 HV30
							96	85.6	67.7	900
							95	85	67	880
							93	84.7	66.3	860
							92	84.2	65.5	840
							90	83.8	64.8	820
							88	83.4	64	800
							87	83	63.3	780
							86	82.6	62.5	760
							84	82.2	61.7	740
2.44	630						82	81.8	61	725
2.45	627							81.5	60.5	710
2.5	601		132	295	208	2039	81	81.2	60	698
2.55	578		127	284	200	1961	78	80.6	58.9	670
2.6	555		122	273	192	1884	75	79.6	57.1	630
2.66	534		117	262	184	1807	73	79	56.1	609
2.7	514		112	250	176	1729	71	78.2	54.4	572
2.75	495	495	108	241	170	1668	68	76.9	51.9	532
2.8	477	477	105	235	165	1621	66	76.3	50.7	517
2.85	461	461	101	226	160	1559	64	75.5	49.5	497
2.9	444	444	98	219	155	1513	62	74.2	47.5	470
2.95	429	429	95	212	150	1467	60	73.5	46	452
3	415	415	92	206	145	1420	58	73	44.8	437
3.05	401	401	88	197	139	1359	56	72.5	43.7	422
3.1	388	388	85	190	134	1312	54	71.5	42.4	408
3.15	375	375	82	183	129	1266	52	71	41.3	395
3.2	363	363	80	179	126	1235	51	70.3	39.9	381
3.25	352	352	77	172	121	1189	49	69.8	38.8	370
3.3	341	341	75	168	118	1158	48	69.2	37.7	359
3.35	331	331	73	163	114	1127	46	68.8	36.7	349
3.4	321	321	71	159	111	1096	45	68	35	337
3.45	311	311	68	152	107	1050	43	67.5	34	327
3.5	302	302	66	147	104	1019	42	66.8	33	318
3.55	293	293	64	143	101	988	41	66.2	32	308

3.6	285	285	63	141	99	973	40	65.7	30.9	300
3.65	277	277	61	136	96	942	38	65.2	29.8	292
3.7	269	269	59	132	93	911	37	64.6	29	284
3.75	262	262	58	130	91	895	36	64	27.5	275
3.8	255	255	56	125	89	865	35	63.6	26.6	269
3.85	248	248	55	123	87	849	34	62.9	25.2	261
3.9	241	241	53	118	84	818	33	62.6	24.3	255
3.95	235	235	51	114	81	787	32	62	23	247
4	229	229	50	112	79	772	31	61.6	22	241
4.05	223	223	49	110	77	756	30	60.7	20.8	234
4.1	217	217	48	107	76	741				228
									Hardness "B" Scale	
4.15	212	212	46	103	73	710	29		98	222
4.2	207	207	45	101	71	695	28		97	218
4.3	197	197	43	97	68	664	27		96	212
4.4	187	187	41	92	65	632	25		93	196
4.5	179	179	39	88	62	602			91	188
4.6	170	170	36	81	57	556	24		88.5	178
4.7	163	163	35	78	55	540			86	171
4.8	156	156	34	76	54	525	23		84.2	163
4.9	149	149	32	72	51	494			82	156
5	143	143	31	69	49	479	22		80	150
5.1	137	137	30	67	48	463	21		77	143
5.2	131	131	29.5	66	47	455	20.5		75	137
5.3	126	126	29	65	46	448	20		72.5	132
5.4	121	121	28	63	44	432			70	127
5.5	116	116	26	58	42	401	15		67	122

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