

VICKERS HARDNESS CONVERSION CHART

Rockwell						Rockwell Superficial				Brinell		Vickers	Shore	Approx. Tensile Strength (psi)
A	B	C	D	E	F	15-N	30-N	45-N	30-T	3000kg	500kg	136		
60kg Brale	100kg 1/16" Ball	150kg Brale	100kg Brale	100kg 1/8" Ball	60kg 1/16" Ball	15kg Brale	30kg Brale	45kg Brale	30kg 1/16" Ball	10mm Ball Steel	10mm Ball Steel	Diamond Pyramid	Sciero-scope	
86.5	-	70	78.5	-	-	94.0	86.0	77.6	-	-	-	1076	101	-
86.0	-	69	77.7	-	-	93.5	85.0	76.5	-	-	-	1044	99	-
85.6	-	68	76.9	-	-	93.2	84.4	75.4	-	-	-	940	97	-
85.0	-	67	76.1	-	-	92.9	83.6	74.2	-	-	-	900	95	-
84.5	-	66	75.4	-	-	92.5	82.8	73.2	-	-	-	865	92	-
83.9	-	65	74.5	-	-	92.2	81.9	72.0	-	739	-	832	91	-
83.4	-	64	73.8	-	-	91.8	81.1	71.0	-	722	-	800	88	-
82.8	-	63	73.0	-	-	91.4	80.1	69.9	-	705	-	772	87	-
82.3	-	62	72.2	-	-	91.1	79.3	68.8	-	688	-	746	85	-
81.8	-	61	71.5	-	-	90.7	78.4	67.7	-	670	-	720	83	-
81.2	-	60	70.7	-	-	90.2	77.5	66.6	-	654	-	697	81	-
80.7	-	59	69.9	-	-	89.8	76.6	65.5	-	634	-	674	80	-
80.1	-	58	69.2	-	-	89.3	75.7	64.3	-	615	-	653	78	-
79.6	-	57	68.5	-	-	88.9	74.8	63.2	-	595	-	633	76	-
79.0	-	56	67.7	-	-	88.3	73.9	62.0	-	577	-	613	75	-
78.5	120	55	66.9	-	-	87.9	73.0	60.9	-	560	-	595	74	-
78.0	120	54	66.1	-	-	87.4	72.0	59.8	-	543	-	577	72	-
77.4	119	53	65.4	-	-	86.9	71.2	58.6	-	525	-	560	71	-
76.8	119	52	64.6	-	-	86.4	70.2	57.4	-	500	-	544	69	-
76.3	118	51	63.8	-	-	85.9	69.4	56.1	-	487	-	528	68	-
75.9	117	50	63.1	-	-	85.5	68.5	55.0	-	475	-	513	67	-
75.2	117	49	62.1	-	-	85.0	67.6	53.8	-	464	-	498	66	-
74.7	116	48	61.4	-	-	84.5	66.7	52.5	-	451	-	484	64	-
74.1	116	47	60.8	-	-	83.9	65.8	51.4	-	442	-	471	63	-
73.6	115	46	60.0	-	-	83.5	64.8	50.3	-	432	-	458	62	-
73.1	115	45	59.2	-	-	83.0	64.0	49.0	-	421	-	446	60	-
72.5	114	44	58.5	-	-	82.5	63.1	47.8	-	409	-	434	58	-
72.0	113	43	57.7	-	-	82.0	62.2	46.7	-	400	-	423	57	-
71.5	113	42	56.9	-	-	81.5	61.3	45.5	-	390	-	412	56	191,000
70.9	112	41	56.2	-	-	80.9	60.4	44.3	-	381	-	402	55	187,000
70.4	112	40	55.4	-	-	80.4	59.5	43.1	-	371	-	392	54	182,000
69.9	111	39	54.6	-	-	79.9	58.6	41.9	-	362	-	382	52	177,000
69.4	110	38	53.8	-	-	79.4	57.7	40.8	-	353	-	372	51	173,000
68.9	110	37	53.1	-	-	78.8	56.8	39.6	-	344	-	363	50	169,000
68.4	109	36	52.3	-	-	78.3	55.9	38.4	-	336	-	354	49	165,000
67.9	109	35	51.5	-	-	77.7	55.0	37.2	-	327	-	345	48	160,000
67.4	108	34	50.8	-	-	77.2	54.2	36.1	-	319	-	336	47	156,000
66.8	108	33	50.0	-	-	76.6	53.3	34.9	-	311	-	327	46	152,000
66.3	107	32	49.2	-	-	76.1	52.1	33.7	-	301	-	318	44	147,000
65.8	106	31	48.4	-	-	75.6	51.3	32.5	-	294	-	310	43	144,000
65.3	105	30	47.7	-	-	75.0	50.4	31.3	-	286	-	302	42	140,000
64.7	104	29	47.0	-	-	74.5	49.5	30.1	-	279	-	294	41	137,000
64.3	104	28	46.1	-	-	73.9	48.6	28.9	-	271	-	286	41	133,000
63.8	103	27	45.2	-	-	73.3	47.7	27.8	-	264	-	279	40	129,000
63.3	103	26	44.6	-	-	72.8	46.8	26.7	-	258	-	272	39	126,000
62.8	102	25	43.8	-	-	72.2	45.9	25.5	-	253	-	266	38	124,000
62.4	101	24	43.1	-	-	71.6	45.0	24.3	-	247	-	260	37	121,000
62.0	100	23	42.1	-	-	71.0	44.0	23.1	82.0	240	201	254	36	118,000
61.5	99	22	41.6	-	-	70.5	43.2	22.0	81.5	234	195	248	35	115,000

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	Rockwell						Rockwell Superficial				Brinell		Vickers	Shore	Approx. Tensile Strength (psi)
	A	B	C	D	E	F	15-N	30-N	45-N	30-T	3000kg	500kg	136	Sciencscope	
	60kg Brale	100kg 1/16" Ball	150kg Brale	100kg Brale	100kg 1/8" Ball	60kg 1/16" Ball	15kg Brale	30kg Brale	45kg Brale	30kg 1/16" Ball	10mm Ball Steel	10mm Ball Steel	Diamond Pyramid		
	61.0	98	21	40.9	-	-	69.9	42.3	20.7	81.0	228	189	243	35	112,000
	60.5	97	20	40.1	-	-	69.4	41.5	19.6	80.5	222	184	238	34	109,000
	59.0	96	18	-	-	-	-	-	-	80.0	216	179	230	33	106,000
	58.0	95	16	-	-	-	-	-	-	79.0	210	175	222	32	103,000
	57.5	94	15	-	-	-	-	-	-	78.5	205	171	213	31	100,000
	57.0	93	13	-	-	-	-	-	-	78.0	200	167	208	30	98,000
	56.5	92	12	-	-	-	-	-	-	77.5	195	163	204	29	96,000
	56.0	91	10	-	-	-	-	-	-	77.0	190	160	196	28	93,000
	55.5	90	9	-	-	-	-	-	-	76.0	185	157	192	27	91,000
	55.0	89	8	-	-	-	-	-	-	75.5	180	154	188	26	88,000
	54.0	88	7	-	-	-	-	-	-	75.0	176	151	184	26	86,000
	53.5	87	6	-	-	-	-	-	-	74.5	172	148	180	26	84,000
	53.0	86	5	-	-	-	-	-	-	74.0	169	145	176	25	83,000
	52.5	85	4	-	-	-	-	-	-	73.5	165	142	173	25	81,000
	52.0	84	3	-	-	-	-	-	-	73.0	162	140	170	25	79,000
	51.0	83	2	-	-	-	-	-	-	72.0	159	137	166	24	78,000
	50.5	82	1	-	-	-	-	-	-	71.5	156	135	163	24	76,000
	50.0	81	0	-	-	-	-	-	-	71.0	153	133	160	24	75,000
	49.5	80	-	-	-	-	-	-	-	70.0	150	130	-	-	73,000
	49.0	79	-	-	-	-	-	-	-	69.5	147	128	-	-	-
	48.5	78	-	-	-	-	-	-	-	69.0	144	126	-	-	-
	48.0	77	-	-	-	-	-	-	-	68.0	141	124	-	-	-
	47.0	76	-	-	-	-	-	-	-	67.5	139	122	-	-	-
	46.5	75	-	-	-	99.5	-	-	-	67.0	137	120	-	-	-
	46.0	74	-	-	-	99.0	-	-	-	66.0	135	118	-	-	-
	45.5	73	-	-	-	98.5	-	-	-	65.5	132	116	-	-	-
	45.0	72	-	-	-	98.0	-	-	-	65.0	130	114	-	-	-
	44.5	71	-	-	100.0	97.5	-	-	-	64.2	127	112	-	-	-
	44.0	70	-	-	99.5	97.0	-	-	-	63.5	125	110	-	-	-
	43.5	69	-	-	99.0	96.0	-	-	-	62.8	123	109	-	-	-
	43.0	68	-	-	98.0	95.5	-	-	-	62.0	121	107	-	-	-
	42.5	67	-	-	97.5	95.0	-	-	-	61.4	119	106	-	-	-
	42.0	66	-	-	97.0	94.5	-	-	-	60.5	117	104	-	-	-
	41.8	65	-	-	96.0	94.0	-	-	-	60.1	116	102	-	-	-
	41.5	64	-	-	95.5	93.5	-	-	-	59.5	114	101	-	-	-
	41.0	63	-	-	95.0	93.0	-	-	-	58.7	112	99	-	-	-
	40.5	62	-	-	94.5	92.0	-	-	-	58.0	110	98	-	-	-
	40.0	61	-	-	93.5	91.5	-	-	-	57.3	108	96	-	-	-
	39.5	60	-	-	93.0	91.0	-	-	-	56.5	107	95	-	-	-
	39.0	59	-	-	92.5	90.5	-	-	-	55.9	106	94	-	-	-
	38.5	58	-	-	92.0	90.0	-	-	-	55.0	104	92	-	-	-
	38.0	57	-	-	91.0	89.5	-	-	-	54.6	102	91	-	-	-
	37.8	56	-	-	90.5	89.0	-	-	-	54.0	101	90	-	-	-
	37.5	55	-	-	90.0	88.0	-	-	-	53.2	99	89	-	-	-
	37.0	54	-	-	89.5	87.5	-	-	-	52.5	-	87	-	-	-
	36.5	53	-	-	89.0	87.0	-	-	-	51.8	-	86	-	-	-
	36.0	52	-	-	88.0	86.5	-	-	-	51.0	-	85	-	-	-
	35.5	51	-	-	87.5	86.0	-	-	-	50.4	-	84	-	-	-
	35.0	50	-	-	87.0	85.5	-	-	-	49.5	-	83	-	-	-
	34.8	49	-	-	86.5	85.0	-	-	-	49.1	-	82	-	-	-
	34.5	48	-	-	85.5	84.5	-	-	-	48.5	-	81	-	-	-

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60kg Brale	100kg 1/16" Ball	150kg Brale	100kg Brale	100kg 1/8" Ball	60kg 1/16" Ball	15kg Brale	30kg Brale	45kg Brale	30kg 1/16" Ball	10mm Ball Steel	10mm Ball Steel	Diamond Pyramid	Sciero-scope	
34.0	47	-	-	85.0	84.0	-	-	-	47.7	-	80	-	-	-
33.5	46	-	-	84.5	83.0	-	-	-	47.0	-	79	-	-	-
33.0	45	-	-	84.0	82.5	-	-	-	46.2	-	79	-	-	-
32.5	44	-	-	83.5	82.0	-	-	-	45.5	-	78	-	-	-
32.0	43	-	-	82.5	81.5	-	-	-	44.8	-	77	-	-	-
31.5	42	-	-	82.0	81.0	-	-	-	44.0	-	76	-	-	-
31.0	41	-	-	81.5	80.5	-	-	-	43.4	-	75	-	-	-
30.8	40	-	-	81.0	79.5	-	-	-	43.0	-	74	-	-	-
30.5	39	-	-	80.0	79.0	-	-	-	42.1	-	74	-	-	-
30.0	38	-	-	79.5	78.5	-	-	-	41.5	-	73	-	-	-
29.5	37	-	-	79.0	78.0	-	-	-	40.7	-	72	-	-	-
29.0	36	-	-	78.5	77.5	-	-	-	40.0	-	71	-	-	-
28.5	35	-	-	78.0	77.0	-	-	-	39.3	-	71	-	-	-
28.0	34	-	-	77.0	76.5	-	-	-	38.5	-	70	-	-	-
27.8	33	-	-	76.5	75.5	-	-	-	37.9	-	69	-	-	-
27.5	32	-	-	76.0	75.0	-	-	-	37.5	-	68	-	-	-
27.0	31	-	-	75.5	74.5	-	-	-	36.6	-	68	-	-	-
26.5	30	-	-	75.0	74.0	-	-	-	36.0	-	67	-	-	-
26.0	29	-	-	74.0	73.5	-	-	-	35.2	-	66	-	-	-
25.5	28	-	-	73.5	73.0	-	-	-	34.5	-	66	-	-	-
25.0	27	-	-	73.0	72.5	-	-	-	33.8	-	65	-	-	-
24.5	26	-	-	72.5	72.0	-	-	-	33.1	-	65	-	-	-
24.2	25	-	-	72.0	71.0	-	-	-	32.4	-	64	-	-	-
24.0	24	-	-	71.0	70.5	-	-	-	32.0	-	64	-	-	-
23.5	23	-	-	70.5	70.0	-	-	-	31.1	-	63	-	-	-
23.0	22	-	-	70.0	69.5	-	-	-	30.4	-	63	-	-	-
22.5	21	-	-	69.5	69.0	-	-	-	29.7	-	62	-	-	-
22.0	20	-	-	68.5	68.5	-	-	-	29.0	-	62	-	-	-
21.5	19	-	-	68.0	68.0	-	-	-	28.1	-	61	-	-	-
21.2	18	-	-	67.5	67.0	-	-	-	27.4	-	61	-	-	-
21.0	17	-	-	67.0	66.5	-	-	-	26.7	-	60	-	-	-
20.5	16	-	-	66.5	66.0	-	-	-	26.0	-	60	-	-	-
20.0	15	-	-	65.5	65.5	-	-	-	25.3	-	59	-	-	-
-	14	-	-	65.0	65.0	-	-	-	24.6	-	59	-	-	-
-	13	-	-	64.5	64.5	-	-	-	23.9	-	58	-	-	-
-	12	-	-	64.0	64.0	-	-	-	23.5	-	58	-	-	-
-	11	-	-	63.5	63.5	-	-	-	22.6	-	57	-	-	-
-	10	-	-	62.5	63.0	-	-	-	21.9	-	57	-	-	-
-	9	-	-	62.0	62.0	-	-	-	21.2	-	56	-	-	-
-	8	-	-	61.5	61.5	-	-	-	20.5	-	56	-	-	-
-	7	-	-	61.0	61.0	-	-	-	19.8	-	56	-	-	-
-	6	-	-	60.5	60.5	-	-	-	19.1	-	55	-	-	-
-	5	-	-	60.0	60.0	-	-	-	18.4	-	55	-	-	-
-	4	-	-	59.0	59.5	-	-	-	18.0	-	55	-	-	-
-	3	-	-	58.5	59.0	-	-	-	17.1	-	54	-	-	-
-	2	-	-	58.0	58.0	-	-	-	16.4	-	54	-	-	-
-	1	-	-	57.5	57.5	-	-	-	15.7	-	53	-	-	-
-	0	-	-	57.0	57.0	-	-	-	15.0	-	53	-	-	-

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