



430 WEST 600 NORTH, P.O. BOX 396
 SALT LAKE CITY, UTAH 84110
 TELEPHONE (801) 363-7318
 FAX (801) 521-0641

**Approximate Hardness Conversion
 Numbers of Steel**

BRINELL		ROCKWELL		Diamond Pyramid Hardness Number, Vickers	Shore Scleroscope Hardness Number	Tensile Strength (Approx.) x 1000 psi.
Indentation Diameter, mm.	Hardness, 10 mm. Tungsten Carbide ball 3000 kg. load	C-Scale Hardness Number	B-Scale 100 kg. load, 1/16" Diameter ball			
-	-	68.8	-	940	97	-
-	-	67.0	-	900	95	-
2.25	745	65.3	-	840	91	-
2.30	712	-	-	-	-	-
2.35	682	61.7	-	737	84	-
2.40	653	60.0	-	697	81	-
2.45	627	58.7	-	667	79	347
2.50	601	57.3	-	640	77	328
2.55	578	56.0	-	615	75	313
2.60	555	54.7	-	591	73	298
2.65	534	53.5	-	569	71	288
2.70	514	52.1	-	547	70	273
2.75	495*	51.0	-	528	68	266
2.80	477	49.6	-	508	66	254
2.85	461	48.5	-	491	65	243
2.90	444	47.1	-	472	63	230
2.95	429	45.7	-	455	61	220
3.00	415	44.5	-	440	59	212
3.05	401	43.1	-	425	58	202
3.10	388	41.8	-	410	56	193
3.15	375	40.4	-	396	54	184
3.20	363	39.1	-	383	52	177
3.25	352	37.9	(110.0)	372	51	172
3.30	341	36.6	(109.0)	360	50	164
3.35	331	35.5	(108.5)	350	48	159
3.40	321	34.3	(108.0)	339	47	154
3.45	311	33.1	(107.5)	328	46	149
3.50	302	32.1	(107.0)	319	45	146
3.55	293	30.9	(106.0)	309	43	142
3.60	285	29.9	(105.5)	301	42	138

- BHN above 495 are for carbide ball only.

NOTE: Values shown in parentheses are beyond the normal range and are for comparison only.



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Indentation Diameter, mm.	Hardness, 10 mm. Tungsten Carbide ball 3000 kg. load	C-Scale Hardness Number	B-Scale 100 kg. load, 1/16" Diameter ball			
3.65	277	28.8	(104.5)	292	41	134
3.70	269	27.6	(104.0)	284	40	131
3.75	262	26.6	(103.0)	276	39	127
3.80	255	25.4	(102.0)	269	38	123
3.85	248	24.2	(101.0)	261	37	120
3.90	241	22.8	100.0	253	36	116
3.95	235	21.7	99.0	247	35	114
4.00	229	20.6	98.2	241	34	111
4.05	223	(18.8)	97.3	234	-	107
4.10	217	(17.5)	96.4	228	33	105
4.15	212	(16.0)	95.5	222	-	102
4.20	207	(15.2)	94.6	218	32	100
4.25	201	(13.8)	93.8	212	31	98
4.30	197	(12.7)	92.8	207	30	95
4.35	192	(11.5)	91.9	202	29	93
4.40	187	(10.0)	90.7	196	-	90
4.45	183	(9.0)	90.0	192	28	89
4.50	179	(8.0)	89.0	188	27	87
4.55	174	(6.4)	87.8	182	-	85
4.60	170	(5.4)	86.8	178	26	83
4.65	167	(4.4)	86.0	175	-	81
4.70	163	(3.3)	85.0	171	25	79
4.75	159	(2.0)	83.9	167	-	78
4.80	156	(0.9)	82.9	163	24	76
4.90	149	-	80.8	156	23	73
5.00	143	-	78.7	150	22	71
5.10	137	-	76.4	143	21	67
5.20	131	-	74.0	137	-	65
5.30	126	-	72.0	132	20	63

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