

## HARDNESS CONVERSION NUMBERS

- (1) Brinell Indentation Diameter, MM.  
 (2) Standard or Tungsten Carbide Ball, Brinell Hardness No. – 10MM. Ball 3000-KG. Load  
 (3) Diamond Pyramid Hardness Number. 50-KG. Load

- (4) Rockwell Hardness Number  
 B-Scale 100-KG. Load;  $\frac{1}{16}$ " Diameter Ball  
 (5) Rockwell Hardness Number  
 C-Scale 150-KG. Load Brale Penetrator  
 Rockwell Superficial Hardness Number

- Superficial Brale Penetrator:  
 (6) 15-N Scale 15-KG. Load  
 (7) 30-N Scale 30-KG. Load  
 (8) 45-N Scale 45-KG. Load  
 (9) Shore Scleroscope Hardness Number  
 (10) Tensile Strength (Approx.) 1000 PSI.

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
2.95	429	455	–	45.7	83.4	64.6	49.9	61	217
3.00	415	440	–	44.5	82.8	63.5	48.4	59	210
3.05	401	425	–	43.1	82.0	62.3	46.9	58	202
3.10	388	410	–	41.8	81.4	61.1	45.3	56	195
3.15	375	396	–	40.4	80.6	59.9	43.6	54	188
3.20	363	383	–	39.1	80.0	58.7	42.0	52	182
3.25	352	372	(110.0)	37.9	79.3	57.6	40.5	51	176
3.30	341	360	(109.0)	36.9	78.6	56.4	39.1	50	170
3.35	331	350	(108.5)	35.5	78.0	55.4	37.8	48	166
3.40	321	339	(108.0)	34.3	77.3	54.3	36.4	47	160
3.45	311	328	(107.5)	33.1	76.7	53.3	34.4	46	155
3.50	302	319	(107.0)	32.1	76.1	52.2	33.8	45	150
3.55	293	309	(106.0)	30.9	75.5	51.2	32.4	43	145
3.60	285	301	(105.5)	29.9	75.0	50.3	31.2	–	141
3.65	277	292	(104.5)	28.8	74.4	49.3	29.9	41	137
3.70	269	284	(104.0)	27.6	73.7	48.3	28.5	40	133
3.75	262	276	(103.0)	26.6	73.1	47.3	27.3	39	129
3.80	255	269	(102.0)	25.4	72.5	46.2	26.0	38	126
3.85	248	261	(101.0)	24.2	71.7	45.1	24.5	37	122
3.90	241	253	100.0	22.8	70.9	43.9	22.8	36	118
3.95	235	247	99.0	21.7	70.3	42.9	21.5	35	115
4.00	229	241	98.2	20.5	69.7	41.9	20.1	34	111

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
4.05	223	234	97.3	(18.8)	–	–	–	–	–
4.10	217	228	96.4	(17.5)	–	–	–	33	105
4.15	212	222	95.5	(16.0)	–	–	–	–	102
4.20	207	218	94.6	(15.2)	–	–	–	32	100
4.25	201	212	93.8	(13.8)	–	–	–	31	98
4.30	197	207	92.8	(12.7)	–	–	–	30	95
4.35	192	202	91.9	(11.5)	–	–	–	29	93
4.40	187	196	90.7	(10.0)	–	–	–	–	90
4.45	183	192	90.0	(9.0)	–	–	–	28	89
4.50	179	188	89.0	(8.0)	–	–	–	27	87
4.55	174	182	87.8	(6.4)	–	–	–	–	85
4.60	170	178	86.8	(5.4)	–	–	–	26	83
4.65	167	175	86.0	(4.4)	–	–	–	–	81
4.70	163	171	85.0	(3.3)	–	–	–	25	79
4.80	156	163	82.9	(0.9)	–	–	–	–	76
4.90	149	156	80.8	–	–	–	–	23	73
5.00	143	150	78.7	–	–	–	–	22	71
5.10	137	143	76.4	–	–	–	–	21	67
5.20	131	137	74.0	–	–	–	–	–	65
5.30	126	132	72.0	–	–	–	–	20	63
5.40	121	127	69.8	–	–	–	–	19	60
5.50	116	122	67.6	–	–	–	–	18	58
5.60	111	117	65.7	–	–	–	–	15	56