



## HARDNESS CONVERSION NUMBERS

BRINELL INDENTATION DIAMETER, MM.	BRINELL HARDNESS NO. - 10-MM. BALL, 3000-KG LOAD		ROCKWELL HARDNESS NUMBER		ROCKWELL SUPERFICIAL HARDNESS NUMBER - SUPERFICIAL BRALE PENETRATOR			SHORE SCLEROSCOPE HARDNESS NUMBER	TENSILE STRENGTH (APPROX.) 1000 PSI.
	STANDARD OR TUNGSTEN CARBIDE BALL	DIAMOND PYRAMID HARDNESS NUMBER, 90-KG LOAD	B-SCALE 100-KG. LOAD 1/16 IN. DIA. BALL	C-SCALE 100-KG. LOAD BRALE PENETRATOR	15-N SCALE 15-KG. LOAD	30-N SCALE 30-KG. LOAD	45-N SCALE 45-KG. LOAD		
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)	36.6	78.6	56.4	39.1	50	170
3.35	331	350	(108.5)	35.5	78.0	55.4	27.8	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
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