

Technical Information

Conversion Table Reference - Hardness Scales

Brinell, 10mm Ball, Load 3000kg, Standard Ball	Vickers	Rockwell		Shore	Brinell, 10mm Ball, Load 3000kg, Standard Ball	Vickers	Rockwell		Shore
		B Scale, Load 100kg, Diameter 1/16 in. Steel Ball	C Scale, Load 150kg, 120° Diamond Cone				B Scale, Load 100kg, Diameter 1/16 in. Steel Ball	C Scale, Load 150kg, 120° Diamond Cone	
HB	HV	HRB	HRC	HS	HB	HV	HRB	HRC	HS
-	940	-	68.0	97	429	455	-	45.7	61
-	920	-	67.5	96	415	440	-	44.5	59
-	900	-	67.0	95	401	425	-	43.1	58
(767)	880	-	66.4	93	388	410	-	41.8	56
(757)	860	-	65.9	92	375	396	-	40.4	54
(745)	840	-	65.3	91	363	383	-	39.1	52
(733)	820	-	64.7	90	352	372	110.0	37.9	51
(722)	800	-	64.0	88	341	360	109.0	36.6	50
(712)	-	-	-	-	331	350	108.5	35.5	48
(710)	780	-	63.3	87	321	339	108.0	34.3	47
(698)	760	-	62.5	86					
(684)	740	-	61.8	-	311	328	107.5	33.1	46
(682)	737	-	61.7	84	302	319	107.0	32.1	45
(670)	720	-	61.0	83	293	309	106.0	30.9	43
(656)	700	-	60.1	-	285	301	105.5	29.9	-
(653)	697	-	60.0	81	277	292	104.5	28.8	41
(647)	690	-	59.7	-	269	284	104.0	27.6	40
(638)	680	-	59.2	80	262	276	103.0	26.6	39
(630)	670	-	58.8	-	255	269	102.0	25.4	38
(627)	667	-	58.7	79	248	261	101.0	24.2	37
-	677	-	59.1	-	241	253	100.0	22.8	36
(601)	640	-	57.3	77	235	247	99.0	21.7	35
-	640	-	57.3	-	229	241	98.2	20.5	34
(578)	615	-	56.0	75	223	234	97.3	18.8	-
-	607	-	55.6	-	217	228	96.4	17.5	33
(555)	591	-	54.7	73	212	222	95.5	16.0	-
-	579	-	54.0	-	207	218	94.6	15.2	32
(534)	569	-	53.5	71	201	212	93.8	13.8	31
-	553	-	52.5	-	197	207	92.8	12.7	30
(514)	547	-	52.1	70	192	202	91.9	11.5	29
495	539	-	51.6	-	187	196	90.7	10.0	-
-	530	-	51.1	-	183	192	90.0	9.0	28
-	528	-	51.0	68	179	188	89.0	8.0	27
477	516	-	50.3	-	174	182	87.8	6.4	-
-	508	-	49.6	-	170	178	86.8	5.4	26
-	508	-	49.6	66	167	175	86.0	4.4	-
461	495	-	48.8	-	163	171	85.0	3.3	25
-	491	-	48.5	-	156	163	82.9	0.9	-
-	491	-	48.5	65	149	156	80.8	-	23
444	474	-	47.2	-	143	150	78.7	-	22
-	472	-	47.1	-	137	143	76.4	-	21
-	472	-	47.1	63	131	137	74.0	-	-
					126	132	72.0	-	20
					121	127	69.8	-	19
					116	122	67.6	-	18
					111	117	65.7	-	15

Note: Figures in parentheses under Brinell indicate values using tungsten carbide ball.