

Impression Dia Vs Brinell Hardness

Brinell Hardness		Approx Rockwell		Approx Tensile Strength
Impression dia	10mm tungsten ball 3000 kgs	C	B	
Rockwell hardness & tensile strengths apply only to BHN with 3000 kg load				
2.00	945			
2.05	899			
2.10	856			
2.15	817			
2.20	780			368
2.25	745	63		360
2.30	712	62		354
2.35	682	60		341
2.40	653	59		329
2.45	627	57		317
2.50	601	56		305
2.55	578	55		295
2.60	555	53		284
2.65	534	52		273
2.70	514	51		263
2.75	495	50		253
2.80	477	49		242
2.85	461	48		233
2.90	444	47		221
2.95	429	46		211
3.00	413	45		202
3.05	401	43		193
3.10	388	42		185
3.15	375	40		178
3.20	363	39		171
3.25	352	38		165
3.30	341	37		159
3.35	331	35		154
3.40	321	34		148
3.45	311	33		143

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3.50	302	32		139
3.55	293	31		135
3.60	285	30		131
3.65	277	29		127
3.70	269	28		124
3.75	262	27		121
3.80	255	25		117
3.85	248	24		115
3.90	241	23	100	112
3.95	235	22	99	109
4.00	229	21	98	107
4.05	223		97	105
4.10	217		96	103
4.15	212		95	100
4.20	207		94	98
4.25	201		93	96
4.30	197		92	95
4.35	192		91	93
4.40	187		90	91
4.45	183		89	89
4.50	179		88	87
4.55	174		87	85
4.60	170		86	84
4.65	167		85	82
4.70	163		84	81
4.75	159		83	79
4.80	156		82	78
4.85	152		81	76
4.90	149		80	75
4.95	146		79	74

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5.00	143		78	72
5.05	140		77	71
5.10	137		75	70
5.15	134		74	68
5.20	131		73	66
5.25	128		72	65
5.30	126		71	64
5.35	123		69	63
5.40	121		68	62
5.45	118		67	61
5.50	116		65	60
5.55	114		64	59
5.60	111		62	58
5.65	109		61	56
5.70	107		60	55
5.75	105		58	54
5.80	103		57	53
5.85	101		55	52
5.90	99.2			51
5.95	97.3			50