



Hardness Conversation Table

Brinell		Rockwell		Tensile Strength 1000psi	Brinell		Rockwell		Tensile Strength 1000psi
Indent Dia./mm	Number*	B	C		Indent Dia./mm	Number*	B	C	
2.25	745		65.3		3.75	262	103	26.6	127
2.3	712		-		3.8	255	102	25.4	123
2.35	682		61.7		3.85	248	101	24.2	120
2.4	653		60		3.9	241	100	22.8	116
2.45	627		58.7		3.95	235	99	21.7	114
2.5	601		57.3		4	229	98.2	20.5	111
2.55	578		56		4.05	223	97.3	18.8	-
2.6	555		54.7	298	4.1	217	96.4	17.5	105
2.65	534		53.5	288	4.15	212	95.5	16	102
2.7	514		52.1	274	4.2	207	94.6	15.2	100
2.75	495		51.6	269	4.25	201	93.8	13.8	98
2.8	477		50.3	258	4.3	197	92.8	12.7	95
2.85	461		48.8	244	4.35	192	91.9	11.5	93
2.9	444		47.2	231	4.4	187	90.7	10	90
2.95	429		45.7	219	4.45	183	90	9	89
3	415		44.5	212	4.5	179	89	8	87
3.05	401		43.1	202	4.55	174	87.8	6.4	85
3.1	388		41.8	193	4.6	170	86.8	5.4	83
3.15	375		40.4	184	4.65	167	86	4.4	81
3.2	363		39.1	177	4.7	163	85	3.3	79
3.25	352	110	37.9	171	4.8	156	82.9	0.9	76
3.3	341	109	36.6	164	4.9	149	80.8		73
3.35	331	108.5	35.5	159	5	143	78.7		71
3.4	321	108	34.3	154	5.1	137	76.4		67
3.45	311	107.5	33.1	149	5.2	131	74		65
3.5	302	107	32.1	146	5.3	126	72		63
3.55	293	106	30.9	141	5.4	121	69.8		60
3.6	285	105.5	29.9	138	5.5	116	67.6		58
3.65	277	104.5	28.8	134	5.6	111	65.7		56
3.7	269	104	27.6	130					

Condensation of Table 2, Report J417b, SAE 1980 handbook.

* Values above 500 are for tungsten carbide ball; below 500 for standard ball.

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