

## Rockwell-Brinell Tensile Strength Relations

Brinell 10 mm Ball 3000 kgm		Rockwell			Tensile	Brinell 10 mm Ball 3000 kgm		Rockwell			Tensile
DIA.	NO.	C	A	15-N	MPSI	DIA.	NO.	C	A	B	MPSI
2.20	780	70	86.5		384	3.80	255	25	63.0	102	120
2.25	745	68	85.5	93.0	368	3.85	248	24	62.5	101	118
2.30	712	66	84.5	92.5	352	3.90	241	23	62.0	100	115
2.35	682	64	83.5	92.0	337	3.95	235	22	61.5	99	112
2.40	653	62	82.5	91.0	324	4.00	229	21	61.0	98	110
2.45	627	60	81.0	90.0	311	4.05	223	20	60.5	97	107
2.50	601	58	80.0	89.5	298	4.10	217	18	59.5	96	103
2.55	578	57	79.5	89.0	293	4.15	212	17	59.0	96	102
2.60	555	55	78.5	88.0	287	4.20	207	16	58.0	95	100
2.65	534	53	77.5	87.0	283	4.25	201	15	57.5	94	99
2.70	514	52	77.0	86.5	273	4.30	197	13	57.0	93	95
2.75	495	51	76.0	85.5	256	4.35	192	12	56.5	92	93
2.80	477	50	75.5	85.0	246	4.40	187	10	56.0	91	90
			74.5	84.5	237	4.45	183	9	55.5	90	89
2.85	461	48	74.0	84.0	231	4.50	183	8	55.0	89	88
2.90	444	47	73.5	83.5	221	4.55	174	7	54.0	88	87
2.95	429	45	73.0	83.0	215	4.60	170	6	53.5	87	85
3.00	415	44	72.5	82.5	208	4.65	167	4	53.0	86	83
3.05	401	43	71.5	81.5	194	4.70	163	3	52.5	85	82
3.10	388	41	71.0	81.0	188	4.75	159	2	52.0	84	81
3.15	375	40	70.5	80.5	181	4.80	156	1	51.0	83	80
3.20	363	39	69.5	79.5	170	4.85	153		50.5	82	74
3.25	352	37	69.0	79.0	165	4.90	149		50.0	81	72
3.30	341	36	68.5	78.5	160	4.95	146		49.5	80	70
3.35	331	35	68.0	78.0	155	5.00	143		49.0	79	68
3.40	321	34	67.5	77.0	150	5.05	140		48.5	78	68
3.45	311	33	67.0	76.5	147	5.10	137		48.0	77	68
3.50	302	32	66.5	76.0	142	5.15	134		47.0	76	66
3.55	293	31	66.0	75.5	139	5.20	131		46.0	74	64
3.60	285	30	65.5	75.0	136	5.25	128		45.5	73	62
3.65	277	29	65.0	74.5	132	5.30	126		45.0	72	62
3.70	269	28	64.5	74.0	129	5.35	124		44.5	71	60
3.75	262	26	63.5	73.0	123						

Conversion tables dealing with hardness can only be approximations