

Rockwell				Brinell	Vickers	Knoop	Approximate Tensile Strength of Steel (PSI)
A Scale	B Scale	C Scale	D Scale	3000 Kg 10mm Ball		500 g or greater Load	
0 Kg Diam. Brale	100 Kg 1/16" Ball	150Kg Diamond Brale	100Kg Diamond Brale				
92	-	80	87	-	1865	-	-
92	-	79	86	-	1787	-	-
91	-	78	85	-	1710	-	-
91	-	77	84	-	1633	-	-
90	-	76	83	-	1556	-	-
90	-	75	83	-	1478	-	-
89	-	74	82	-	1400	-	-
89	-	73	81	-	1323	-	-
88	-	72	80	-	1245	-	-
87	-	71	80	-	1160	-	-
87	-	70	79	-	1076	-	-
86	-	69	78	-	1004	-	-
85.6	-	68	76.9	-	940	920	-
85.3	-	67.5	76.5	-	920	908	-
85	-	67	76.1	-	900	895	-
84.7	-	66.4	75.7	-	880	882	-
84.4	-	65.9	75.3	-	860	867	-
84.1	-	65.3	74.8	-	840	852	-
83.8	-	64.7	74.3	745*	820	837	-
83.4	-	64	73.8	-	800	822	-
83	-	63.3	73.3	-	780	806	-
82.6	-	62.5	72.6	710*	760	788	-
82.2	-	61.8	72.1	-	740	772	-
81.8	-	61	71.5	-	720	754	-
81.3	-	60.1	70.8	653*	700	735	-
81.1	-	59.7	70.5	-	690	725	-
80.8	-	59.2	70.1	-	680	716	329,000
80.6	-	58.8	69.8	-	670	706	324,000
80.3	-	58.3	69.4	620*	660	697	-
80	-	57.8	69	611*	650	687	-
79.8	-	57.3	68.7	601*	640	677	309,000
79.5	-	56.8	68.3	591*	630	667	-
79.2	-	56.3	67.9	582*	620	657	297,000
78.9	-	55.7	67.5	573*	610	646	-
78.6	-	55.2	67	564*	600	636	-
78.4	-	54.7	66.7	554*	590	625	285,000
78	-	54.1	66.2	545*	580	615	-
77.8	-	53.6	65.8	535*	570	604	274,000
77.4	-	53	65.4	525*	560	594	-
77	-	52.3	64.8	517*	550	583	263,000
76.7	-	51.7	64.4	507*	540	572	-
76.4	-	51.1	63.9	497*	530	561	253,000
76.1	-	50.5	63.5	488*	520	550	-
75.7	-	49.8	62.9	479*	510	539	243,000
75.3	-	49.1	62.2	471*	500	528	-
74.9	-	48.4	61.6	460*	490	517	235,000
74.5	-	47.7	61.3	452*	480	505	-

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74.1	-	46.9	60.7	441	470	494	225,000
73.6	-	46.1	60.1	433	460	482	-
73.3	-	45.3	59.4	425	450	471	-
72.8	-	44.5	58.8	415	440	459	210,000
72.3	-	43.6	58.2	405	430	447	-
71.8	-	42.7	57.5	397	420	435	-
71.4	-	41.8	56.8	388	410	423	195,000
70.8	-	40.8	56	379	400	412	-
70.3	-	39.8	55.2	369	390	400	-
69.8	-	38.8	54.4	360	380	389	-
69.2	-	37.7	53.6	350	370	378	176,000
68.7	-	36.6	52.8	341	360	367	-
68.1	-	35.5	51.9	331	350	356	166,000
67.6	-	34.4	51.1	322	340	346	-
67	-	33.3	50.2	313	330	337	-
66.4	-	32.2	49.4	303	320	328	150,000
65.8	-	31	48.4	294	310	318	-
65.2	-	29.8	47.5	284	300	309	141,000
64.8	-	29.2	47.1	280	295	305	-
64.5	-	28.5	46.5	275	290	300	-
64.2	-	27.8	46	270	285	296	133,000
63.8	-	27.1	45.3	265	280	291	-
63.5	-	26.4	44.9	261	275	286	129,000
63.1	-	25.6	44.3	256	270	282	-
62.7	-	24.8	43.7	252	265	277	-
62.4	-	24	43.1	247	260	272	122,000
62	-	23.1	42.2	243	255	267	-
61.6	99.5	22.2	41.7	238	250	262	-
61.2	-	21.3	41.1	233	245	258	115,000
60.7	98.1	20.3	40.3	228	240	253	-
-	-	-	-	-	235	-	-
-	96.7	-	-	219	230	243	105,000
-	-	-	-	-	225	-	-
-	95	-	-	209	220	234	100,000
-	-	-	-	-	215	-	-
-	93.4	-	-	200	210	226	98,000
-	-	-	-	-	205	-	-
-	91.5	-	-	190	200	216	-
-	-	-	-	-	195	-	90,000
-	89.5	-	-	181	190	206	-
-	-	-	-	-	185	-	-
-	87.1	-	-	171	180	196	83,000
-	-	-	-	-	175	-	-
-	85	-	-	162	170	185	79,000
-	-	-	-	-	165	-	-
-	81.7	-	-	152	160	175	-
-	-	-	-	-	155	-	-

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0 Kg Diam. Brale	100 Kg 1/16" Ball	150Kg Diamond Brale	100Kg Diamond Brale				
-	78.7	-	-	143	150	164	71,000
-	-	-	-	-	145	-	-
-	75	-	-	133	140	154	-
-	-	-	-	-	135	-	-
-	71.2	-	-	124	130	143	63,000
-	-	-	-	-	125	-	-
-	66.7	-	-	114	120	133	-
-	-	-	-	-	115	-	56,000
-	62.3	-	-	105	110	123	-
-	-	-	-	-	105	-	-
-	56.2	-	-	95	100	112	-
-	52	-	-	90	95	107	-
-	48	-	-	86	90	102	-
-	41	-	-	81	85	97	-

* Values for tungsten carbide ball only