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Comparative Hardness Scales for Steel per Machinery's Handbook (25th Edition, pgs 526-527):

Introduction:

The table below shows comparisons of various hardness scales. The information contained in the table is based on the assumption that the metal tested is homogeneous to a depth several times that of the indentation. The data shown in Data Set 1 is based upon extensive tests on carbon and alloy steels mostly in the heat-treated condition and is generally reliable on constructional alloy steel and tool steels in the as-forged, annealed, normalized, quenched and tempered conditions. These hardness comparisons are not as accurate in special cases such as high manganese steel, 18-8 stainless steel, and other austenitic steels, and nickel based alloys. The data shown in Data Set 2 are based upon the hardness measurements of unhardened steel, steel of soft temper, grey and malleable cast iron, and most non-ferrous metals and may not be as accurate for annealed metals of high Rockwell B hardness such as austenitic stainless steel, nickel, high nickel alloys, and aluminum.

Rockwell C-Scale Hardness Number	Diamond Pyramid Hardness Number Vickers	Brinell Hardness Number, 10mm Ball, 3000-kgf Load			Rockwell Hardness Number		Rockwell Superficial Hardness Number Superficial Diameter Penetrator			Shore Scleroscope Hardness Number
		Standard Ball	Hultgren Ball	Tungsten Carbide Ball	A-Scale 60-kgf Load Diameter Penetrator	D-Scale 100-kgf Load Diameter Penetrator	15-N Scale 15-kgf Load	30-N Scale 30-kgf Load	45-N Scale 45-kgf Load	
68	940	-	-	-	85.6	76.9	93.2	84.4	75.4	97
67	900	-	-	-	85.0	76.1	92.9	83.6	74.2	95
66	865	-	-	-	84.5	75.4	92.5	82.8	73.3	92
65	832	-	-	739	83.9	74.5	92.2	81.9	72.0	91
64	800	-	-	722	83.4	73.8	91.8	81.1	71.0	88
63	772	-	-	705	82.8	73.0	91.4	80.1	69.9	87
62	746	-	-	688	82.3	72.2	91.1	79.3	68.8	85
61	720	-	-	670	81.8	71.5	90.7	78.4	67.7	83
60	697	-	613	654	81.2	70.7	90.2	77.5	66.6	81
59	674	-	599	634	80.7	69.9	89.8	76.6	65.5	80
58	653	-	587	615	80.1	69.2	89.3	75.7	64.3	78
57	633	-	575	595	79.6	68.5	88.9	74.8	63.2	76
56	613	-	561	577	79.0	67.7	88.3	73.9	62.0	75
55	595	-	546	560	78.5	66.9	87.9	73.0	60.9	74
54	577	-	534	543	78.0	66.1	87.4	72.0	59.8	72
53	560	-	519	525	77.4	65.4	86.9	71.2	58.6	71
52	544	500	508	512	76.8	64.6	86.4	70.2	57.4	69
51	528	487	494	496	76.3	63.8	85.9	69.4	56.1	68
50	513	475	481	481	75.9	63.1	85.5	68.5	55.0	67
49	498	464	469	469	75.2	62.1	85.0	67.6	53.8	66
48	484	451	455	455	74.7	61.4	84.5	66.7	52.5	64
47	471	442	443	443	74.1	60.8	83.9	65.8	51.4	63
46	458	432	432	432	73.6	60.0	83.5	64.8	50.3	62
45	446	421	421	421	73.1	59.2	83.0	64.0	49.0	60
44	434	409	409	409	72.5	58.5	82.5	63.1	47.8	58
43	423	400	400	400	72.0	57.7	82.0	62.2	46.7	57
42	412	390	390	390	71.5	56.9	81.5	61.3	45.5	56
41	402	381	381	381	70.9	56.2	80.9	60.4	44.3	55
40	392	371	371	371	70.4	55.4	80.4	59.5	43.1	54
39	382	362	362	362	69.9	54.6	79.9	58.6	41.9	52
38	372	353	353	353	69.4	53.8	79.4	57.7	40.8	51
37	363	344	344	344	68.9	53.1	78.8	56.8	39.6	50
36	354	336	336	336	68.4	52.3	78.3	55.9	38.4	49
35	345	327	327	327	67.9	51.5	77.7	55.0	37.2	48
34	336	319	319	319	67.4	50.8	77.2	54.2	36.1	47
33	327	311	311	311	66.8	50.0	76.6	53.3	34.9	46
32	318	301	301	301	66.3	49.2	76.1	52.1	33.7	44
31	310	294	294	294	65.8	48.4	75.6	51.3	32.5	43
30	302	286	286	286	65.3	47.7	75.0	50.4	31.3	42
29	294	279	279	279	64.7	47.0	74.5	49.5	30.1	41
28	286	271	271	271	64.3	46.1	73.9	48.6	28.9	41
27	279	264	264	264	63.8	45.2	73.3	47.7	27.8	40
26	272	258	258	258	63.3	44.6	72.8	46.8	26.7	38
25	266	253	253	253	62.8	43.8	72.2	45.9	25.5	38
24	260	247	247	247	62.4	43.1	71.6	45.0	24.3	37
23	254	243	243	243	62.0	42.1	71.0	44.0	23.1	36
22	248	237	237	237	61.5	41.6	70.5	43.2	22.0	35
21	243	231	231	231	61.0	40.9	69.9	42.3	20.7	35
20	238	226	226	226	60.5	40.1	69.4	41.5	19.6	34
(18)	230	219	219	219	-	-	-	-	-	33
(16)	222	212	212	212	-	-	-	-	-	32
(14)	213	203	203	203	-	-	-	-	-	31
(12)	204	194	194	194	-	-	-	-	-	29
(10)	196	187	187	187	-	-	-	-	-	28
(8)	188	179	179	179	-	-	-	-	-	27
(6)	180	171	171	171	-	-	-	-	-	26
(4)	173	165	165	165	-	-	-	-	-	25
(2)	166	158	158	158	-	-	-	-	-	24
(0)	160	152	152	152	-	-	-	-	-	24