

软钢、可锻铸铁及非铁金属硬度转换表

洛氏 HR	维氏 HV	努普 HK	布氏 HB		洛氏 HR				表面洛氏 HR			肖氏 HS	抗拉 强度 kg/mm ²		
			3000kgf 10mm 钢球	3000kgf 10mm 硬质 合金球	F 60kgf 1/16" 钢球	G 150kgf 1/16" 钢球	E 100kgf 1/8" 钢球	K 150kgf 1/8" 钢球	15T 15kgf 1/16" 钢球	30T 30kgf 1/16" 钢球	45T 45kgf 1/16" 钢球				
100 99 98 97 96	240 234 228 222 216	251 246 241 236 231	240 234 228 222 216	240 234 228 222 216			82.5 81.0 79.0 77.5 76.0				93.1 92.9 92.5 92.1 91.8	83.1 82.5 81.8 81.1 80.4	72.9 71.9 70.9 69.9 68.9	36.0 35.0 34.2 33.4 32.5	82.0 80.0 77.6 75.6 73.3
95 94 93 92 91	210 205 200 195 190	226 221 216 211 206	210 205 200 195 190	210 205 200 195 190			74.0 72.5 71.0 69.0 67.5			100.0 99.5	91.5 91.2 90.8 90.5 90.2	79.8 79.1 78.4 77.8 77.1	67.9 66.9 65.9 64.8 63.8	31.7 31.0 30.2 29.5 28.8	71.0 69.6 67.7 66.0 64.4
90 89 88 87 86	185 180 176 172 169	201 196 192 188 184	185 180 176 172 169	185 180 176 172 169			66.0 64.0 62.5 61.0 59.0			98.5 98.0 97.0 96.5 95.5	89.9 89.5 89.2 88.9 88.6	76.4 75.8 75.1 74.4 73.8	62.8 61.8 60.8 59.8 58.8	28.2 27.6 27.0 26.4 25.9	63.6 61.4 60.0 58.8 57.5
85 84 83 82 81	165 162 159 156 153	180 176 173 170 167	165 162 159 156 153	165 162 159 156 153			57.5 56.0 54.0 52.5 51.0			94.5 94.0 93.0 92.0 91.0	88.2 87.9 87.6 87.3 86.9	73.1 72.4 71.8 71.1 70.4	57.8 56.8 55.8 54.8 53.8	25.4 24.8 24.4 23.9 23.4	56.4 56.2 53.1 52.0 51.0
80 79 78 77 76	150 147 144 141 139	164 161 158 155 152	150 147 144 141 139	150 147 144 141 139			49.0 47.5 46.0 44.0 42.5			90.5 89.5 88.5 88.0 87.0	86.6 86.3 86.0 85.6 85.3	69.7 69.1 68.4 67.7 67.1	52.8 51.8 50.8 49.8 48.8	23.0 22.6 22.2 21.8 21.4	50.0 49.6 49.4 47.2 46.2
75 74 73 72 71	137 135 132 130 127	150 147 145 143 141	137 135 132 130 127	137 135 132 130 127	99.6 99.1 98.5 98.0 97.4	41.0 39.0 37.5 36.0 34.5		100.0		86.0 85.0 84.5 83.5 82.5	85.0 84.7 84.3 84.0 83.7	66.4 65.7 65.1 64.4 63.7	47.8 46.8 45.8 44.8 43.8	21.0 20.8 20.5 20.3 20.0	45.4 44.5 43.7 42.9 42.2
70 69 68 67 66	125 123 121 119 117	139 137 135 133 131	125 123 121 119 117	125 123 121 119 117	96.8 96.2 95.6 95.1 94.5	32.5 31.0 29.5 28.0 26.5		99.5 99.0 98.0 97.5 97.0		81.5 81.0 80.0 79.0 78.0	83.4 83.0 82.7 82.4 82.1	63.1 62.4 61.7 61.0 60.4	42.8 41.8 40.8 39.8 38.7		41.5 40.8 40.0
65 64 63 62 61	116 114 112 110 108	129 127 125 124 122	116 114 112 110 108	116 114 112 110 108	93.9 93.4 92.9 92.2 91.7	25.0 23.5 22.0 20.5 19.0		96.0 95.5 95.0 94.5 93.5		77.5 76.5 75.5 74.5 74.0	81.8 81.4 81.1 80.8 80.5	59.7 59.0 58.4 57.7 57.0	37.7 36.7 35.7 34.7 33.7		
60 59 58 57 56	107 106 104 103 101	120 118 117 115 114	107 106 104 103 101	107 106 104 103 101	91.1 90.5 90.0 89.4 88.8	17.5 16.0 14.5 13.0 11.5		93.0 92.5 92.0 91.0 90.5		73.0 72.0 71.0 70.5 69.5	80.1 79.8 79.5 79.2 78.8	56.4 55.7 55.0 54.4 53.7	32.7 31.7 30.7 29.7 28.7		
55 54 53 52 51	100 99 98 96 95	112 111 110 109 108	100 100	100 100	88.2 87.7 87.1 86.5 86.0	10.0 8.5 7.0 5.5 4.0		90.0 89.5 89.0 88.0 87.5		68.5 68.0 67.0 66.0 65.0	78.5 78.2 77.9 77.5 77.2	53.0 52.4 51.7 51.0 50.3	27.7 26.7 25.7 24.7 23.7		
50 49 48 47 46	94 93 92 91 90	107 106 105 104 103			85.4 84.8 84.3 83.7 83.1	2.5		87.0 86.5 85.5 85.0 84.5		64.5 63.5 62.5 61.5 61.0	76.9 76.6 76.2 75.9 75.6	49.7 49.0 48.3 47.7 47.0	22.7 21.7 20.7 19.7 18.7		
45 44 43 42 41	89 88 87 86 85	102 101 100 99 98			82.6 82.0 81.4 80.8 80.3			84.0 83.5 82.5 82.0 81.5		60.0 59.0 58.0 57.5 56.5	75.3 74.9 74.6 74.3 74.0	46.3 45.7 45.0 44.3 43.7	17.7 16.7 15.7 14.7 13.6		
40 39 38 37 36	84 83 82 81 80	97 96 95 94 93			79.7 79.1 78.6 78.0 77.4			81.0 80.0 79.5 79.0 78.5		55.5 54.5 54.0 53.0 52.0	73.6 73.3 73.0 72.7 72.3	43.0 42.3 41.6 41.0 40.3	12.6 11.6 10.6 9.6 8.6		
35 34 33 32 31 30	80 80 78 78 77 77	92 91 90 89 88 87			76.9 76.3 75.7 75.2 74.6 74.0			78.0 77.0 76.5 76.0 75.5 75.0		51.5 50.5 49.5 48.5 48.0 47.0	72.0 71.7 71.4 71.0 70.7 70.4	39.6 39.0 38.3 37.6 37.0 36.3	7.6 6.6 5.6 4.6 3.6 2.6		

资料来源：日本某株式会社