

表4 弹壳黄铜（70%铜30%锌合金）的近似硬度换算值^{A, B}

维氏 硬度值 (HV)	洛氏硬度值		表面洛氏硬度值		布氏硬度值	
	B 标尺, 100-kgf, 1/16-in. (1.588-mm)球 (HRB)	F 标尺, 60-kgf, 1/16-in. (1.588-mm)球 (HRF)	15-T 标尺, 15-kgf, 1/16-in. (1.588-mm)球 (HR 15-T)	30-T 标尺, 30-kgf, 1/16-in. (1.588-mm)球 (HR 30-T)	45-T 标尺, 45-kgf, 1/16-in. (1.588-mm)球 (HR 45-T)	500-kgf, 10-mm 球 (HBS)
196	93.5	110.0	90.0	77.5	66.0	169
194	..	109.5	..	..	65.5	167
192	93.0	..	..	77.0	65.0	166
190	92.5	109.0	..	76.5	64.5	164
188	92.0	..	89.5	..	64.0	162
186	91.5	108.5	..	76.0	63.5	161
184	91.0	..	..	75.5	63.0	159
182	90.5	108.0	89.0	..	62.5	157
180	90.0	107.5	..	75.0	62.0	156
178	89.0	..	..	74.5	61.5	154
176	88.5	107.0	..	..	61.0	152
174	88.0	..	88.5	74.0	60.5	150
172	87.5	106.5	..	73.5	60.0	149
170	87.0	..	..	..	59.5	147
168	86.0	106.0	88.0	73.0	59.0	146
166	85.5	..	..	72.5	58.5	144
164	85.0	105.5	..	72.0	58.0	142
162	84.0	105.0	87.5	..	57.5	141
160	83.5	..	..	71.5	56.5	139
158	83.0	104.5	..	71.0	56.0	138
156	82.0	104.0	87.0	70.5	55.5	136
154	81.5	103.5	..	70.0	54.5	135
152	80.5	103.0	..	..	54.0	133
150	80.0	..	86.5	69.5	53.5	131
148	79.0	102.5	..	69.0	53.0	129
146	78.0	102.0	..	68.5	52.5	128
144	77.5	101.5	86.0	68.0	51.5	126
142	77.0	101.0	..	67.5	51.0	124
140	76.0	100.5	85.5	67.0	50.0	122
138	75.0	100.0	..	66.5	49.0	121
136	74.5	99.5	86.0	66.0	48.0	120
134	73.5	99.0	..	65.5	47.5	118
132	73.0	98.5	84.5	65.0	46.5	116
130	72.0	98.0	84.0	64.5	45.5	114
128	71.0	97.5	..	64.0	45.0	113
126	70.0	97.0	83.5	63.0	44.0	112
124	69.0	96.5	..	62.5	43.0	110
122	68.0	96.0	83.0	62.0	42.0	108
120	67.0	95.5	..	61.0	41.0	106
118	66.0	95.0	82.5	60.5	40.0	105
116	65.0	94.5	82.0	60.0	39.0	103
114	64.0	94.0	81.5	59.5	38.0	101
112	63.0	93.0	81.0	58.5	37.0	99
110	62.0	92.6	80.5	58.0	36.5	97
108	61.0	92.0	..	57.0	34.5	95
106	59.5	91.2	80.0	56.0	33.0	94
104	58.0	90.5	79.5	55.0	32.0	92
102	57.0	89.8	79.0	54.5	30.5	90
100	56.0	89.0	78.5	53.5	29.5	88
98	54.0	88.0	78.0	52.5	28.5	86
96	53.0	87.2	77.5	51.5	26.5	85
94	51.0	86.3	77.0	50.5	24.5	83
92	49.5	85.4	76.5	49.0	23.0	82
90	47.5	84.4	75.5	48.0	21.0	80
88	46.0	83.5	75.0	47.0	19.0	79
86	44.0	82.3	74.5	45.5	17.0	77
84	42.0	81.2	73.5	44.0	14.5	76
82	40.0	80.0	73.0	43.0	12.5	74
80	37.5	78.6	72.0	41.0	10.0	72
78	35.0	77.4	71.5	39.5	7.5	70
76	32.5	76.0	70.5	38.0	4.5	68
74	30.0	74.8	70.0	36.0	1.0	66
72	27.5	73.2	69.0	34.0	..	64
70	24.5	71.8	68.0	32.0	..	63
68	21.5	70.0	67.0	30.0	..	62
66	18.5	68.5	66.0	28.0	..	61
64	15.5	66.8	65.0	25.5	..	59
62	12.5	65.0	63.5	23.0	..	57
60	10.0	..	62.5	..	..	55



立即扫描二维码:

- 下载本标准
- 下载更多硬度标准
- 安装“硬度换算”手机应用

表4 续

维氏 硬度值 (HV)	洛氏硬度值		表面洛氏硬度值			布氏硬度值
	B 标尺, 100-kgf, 1/16-in. (1.588-mm)球 (HRB)	F 标尺, 60-kgf 1/16-in. (1.588-mm)球 (HRF)	15-T 标尺, 15-kgf, 1/16-in. (1.588-mm)球 (HR 15-T)	30-T 标尺, 30-kgf, 1/16-in. (1.588-mm)球 (HR 30-T)	45-T 标尺, 45-kgf, 1/16-in. (1.588-mm)球 (HR 45-T)	
58	...	61.0	61.0	18.0	...	53
56	...	58.8	60.0	15.0	...	52
54	...	56.5	58.5	12.0	...	50
52	...	53.5	57.0	...	...	48
50	...	50.5	55.5	...	...	47
49	...	49.0	54.5	...	...	46
48	...	47.0	53.5	...	...	45
47	...	45.0	...	...	...	44
46	...	43.0	...	...	...	43
45	...	40.0	...	...	...	42

^A 在表格标题中, kgf 或 gf 指总试验力。

^B 补充部分 A4 包含了将弹壳黄铜实测硬度单位的值换算成维氏硬度值的公式。使用换算公式前请参见 1.12。



立即扫描二维码:

- 下载本标准
- 下载更多硬度标准
- 安装“硬度换算”手机应用