

**表7 紫铜（牌号102-142，含）的硬度近似换算值<sup>A, B</sup>**

维氏硬度		努氏硬度		表面洛氏硬度值				洛氏硬度值		洛氏表面硬度值		布氏硬度值	
1-kgf (HV)	100-gf (HV)	1-kgf (HK)	500-gf (HK)	15-T标尺, 15-kgf 1/16-in. (1.588- mm)球 (HR 15-T)	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)	30-T标尺, 30-kgf 1/16-in. (1.588- mm)球 (HR 30-T)	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 维氏球 (HBS)	20-kgf 2-mm 维氏球 Ball (HBS)
				0.010-in. (0.25-mm) 带	0.020-in. (0.51-mm) Strip	0.040-in. (1.02-mm) 带				0.080-in. (2.03-mm) 带	0.040-in. (1.02-mm) 带		
130	127.0	138.7	133.8	...	85.0	...	67.0	99.0	...	69.5	49.0	...	119.0
128	125.2	136.8	132.1	83.0	84.5	...	66.0	98.0	87.0	68.5	48.0	...	117.5
126	123.6	134.9	130.4	...	84.0	...	65.0	97.0	...	67.5	46.5	120.0	115.0
124	121.9	133.0	128.7	82.5	83.0	...	64.0	96.0	86.0	66.5	45.0	117.5	113.0
122	121.1	131.0	127.0	...	83.0	...	62.5	95.5	85.5	66.0	44.0	115.0	111.0
120	118.5	129.0	125.2	82.0	82.5	...	61.0	95.0	...	65.0	42.5	112.0	109.0
118	116.8	127.1	123.5	81.5	...	...	59.5	94.0	85.0	64.0	41.0	110.0	107.5
116	115.0	125.1	121.7	...	82.0	...	58.5	93.0	...	63.0	40.0	107.0	105.5
114	113.5	123.2	119.9	81.0	81.5	...	57.0	92.5	84.5	62.0	38.5	105.0	103.5
112	111.8	121.4	118.1	80.5	81.0	...	55.0	91.5	...	61.0	37.0	102.0	102.0
110	109.9	119.5	116.3	80.0	...	...	53.5	91.0	84.0	60.0	36.0	99.5	100.0
108	108.3	117.5	114.5	...	80.9	...	52.0	90.5	83.5	59.0	34.5	97.0	98.0
106	106.6	115.6	112.6	79.5	80.6	...	50.0	89.5	...	58.0	33.0	94.5	96.0
104	104.9	113.5	110.1	79.0	79.5	...	48.0	88.5	83.0	57.0	32.0	92.0	94.0
102	103.2	111.5	108.0	78.5	79.0	...	46.5	87.5	82.5	56.0	30.0	89.5	92.0
100	101.5	109.4	106.0	78.0	78.0	...	44.5	87.0	82.0	55.0	28.5	87.0	90.0
98	99.8	107.3	104.0	77.5	77.5	...	42.5	86.5	81.0	53.5	26.5	84.5	88.0
96	98.0	105.3	102.1	77.0	77.0	...	40.9	86.0	80.5	52.0	25.5	82.0	86.5
94	96.4	103.2	100.0	76.5	76.5	...	38.0	85.0	80.0	51.0	23.0	79.5	85.0
92	94.7	101.0	98.0	76.0	76.0	...	36.0	84.0	79.0	49.0	21.0	77.0	83.0
90	93.0	98.0	96.0	75.5	75.5	...	33.0	83.0	78.0	47.5	19.0	74.5	81.0
88	91.2	96.9	94.0	...	75.0	...	30.5	82.0	77.0	46.0	16.5	...	79.0
86	89.7	95.5	92.0	...	74.5	...	28.0	81.0	76.0	44.0	14.0	...	77.0
84	87.9	92.3	90.0	...	74.0	...	25.5	80.5	75.0	43.0	12.0	...	75.0
82	86.1	90.1	87.9	...	73.5	...	23.0	79.5	74.5	41.0	9.5	...	73.0
80	84.5	87.9	86.0	...	73.0	...	20.8	79.0	73.5	39.5	7.0	...	71.5
78	82.8	85.7	84.0	...	72.0	...	17.0	78.0	72.5	37.5	5.0	...	69.5
76	81.0	83.5	82.0	...	71.5	...	14.5	69.0	71.5	36.0	2.0	...	67.5
74	79.2	81.1	79.5	...	71.0	...	11.5	67.5	70.0	34.0	...	...	66.0
72	77.6	78.9	78.0	...	70.5	...	8.5	66.0	69.0	32.0	...	...	64.0
70	75.8	76.8	76.6	...	70.0	...	5.0	64.0	67.5	30.0	...	...	62.0
68	74.3	74.1	74.4	...	69.5	...	2.0	62.0	66.0	28.0	...	...	60.5
66	72.6	71.9	71.9	...	69.0	...	...	60.0	64.5	26.0	...	...	58.5
64	70.9	69.5	70.0	...	68.5	...	...	58.0	63.0	24.0	...	...	57.0
62	69.1	67.0	67.9	...	68.0	...	...	56.0	61.0	22.0	...	...	55.0
60	67.5	64.6	65.9	...	67.0	...	...	54.0	59.0	18.0	...	...	53.0
58	65.8	62.0	63.8	...	66.0	...	...	51.5	57.0	15.5	...	...	51.5
56	64.0	59.8	61.8	...	64.5	...	...	49.0	55.0	13.0	...	...	49.5
54	62.3	57.4	59.5	...	63.5	...	...	47.0	53.0	10.0	...	...	48.0
52	60.7	55.0	57.2	...	63.0	...	...	44.0	51.5	7.5	...	...	46.5
50	58.9	52.8	55.0	...	62.0	...	...	41.5	49.5	4.5	...	...	44.5
48	57.3	50.3	52.7	...	61.0	...	...	39.0	47.5	1.5	...	...	42.0
46	55.8	48.0	50.2	...	60.5	...	...	36.0	45.0	...	...	...	41.0
44	53.9	45.9	47.8	...	59.5	...	...	33.5	43.0	...	...	...	...
42	52.2	43.7	45.2	...	58.5	...	...	30.5	41.0	...	...	...	...
40	51.3	40.2	42.8	...	57.5	...	...	28.0	38.5	...	...	...	...

<sup>A</sup> 在表格标题中，kgf 或gf 指总试验力。

<sup>B</sup> 补充部分A7 包含了将102-142 紫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