

Table F.3 — Copper (ASTM E 140-97, Table 7)

紫铜硬度换算表

Vickers Hardness Number		Knoop Hardness Number		Rockwell Hardness Number										Brinell Hardness Number	
HV1	HV0,1	HK1	HK0,5	HR15T	HR15T	HR30T	HRB	HRF	HR15T	HR30T	HR45T	HBS 10/500	HBS 2/20		
				Strip 0,25 mm	Strip 0,51 mm	Strip 1,02 mm and greater						Strip 2,03 mm	Strip 1,02 mm		
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	83,5	...	64,0	96,0	86,0	66,5	45,0	117,5	113,0		
122	121,1	131,0	127,0	...	83,0	...	63,5	95,5	85,5	66,0	44,0	115,0	111,0		
120	118,5	129,0	125,2	82,0	82,5	...	63,0	95,0	...	65,0	42,5	112,0	109,0		
118	116,8	127,1	123,5	81,5	...	...	62,5	94,0	85,0	64,0	41,0	110,0	107,5
116	115,0	125,1	121,7	...	82,0	...	62,0	93,0	...	63,0	40,0	107,0	105,5		
114	113,5	123,2	119,9	81,0	81,5	...	61,5	92,5	84,5	62,0	38,5	105,0	103,5		
112	111,8	121,4	118,1	80,5	81,0	...	61,0	92,0	...	61,0	37,0	102,0	102,0		
110	109,9	119,5	116,3	80,0	...	...	60,5	91,5	84,0	60,0	36,0	99,5	100,0
108	108,3	117,5	114,5	...	80,5	...	60,0	91,0	...	59,5	34,5	97,0	98,0		
106	106,6	115,6	112,6	79,5	80,0	...	59,5	90,5	83,5	58,0	33,0	94,5	96,0		
104	104,9	113,5	110,1	79,0	79,5	...	59,0	90,0	83,0	57,0	32,0	92,0	94,0		
102	103,2	111,5	108,0	78,5	79,0	...	58,5	89,5	82,5	56,0	30,0	89,5	92,0		
100	101,5	109,4	106,0	78,0	78,0	...	58,0	89,0	82,0	55,0	28,5	87,0	90,0		
98	99,8	107,3	104,0	77,5	77,5	...	57,5	88,5	81,0	53,5	26,5	84,5	88,0		
96	98,0	105,3	102,1	77,0	77,0	...	57,0	88,0	80,5	52,0	25,5	82,0	86,6		
94	96,4	103,2	100,0	76,5	76,5	...	56,5	87,5	80,0	51,0	23,0	79,5	85,0		
92	94,7	101,0	98,0	76,0	76,0	...	56,0	87,0	79,0	49,0	21,0	77,0	83,0		
90	93,0	98,9	96,0	75,5	75,0	...	55,5	86,5	78,0	47,5	19,0	74,5	81,0		
88	91,2	96,9	94,0	75,0	74,5	...	55,0	86,0	77,0	46,0	16,5	...	79,0		
86	89,7	95,5	92,0	74,5	73,5	...	54,5	85,5	76,0	44,0	14,0	...	77,0		
84	87,9	92,3	90,0	74,0	73,0	...	54,0	85,0	75,0	43,0	12,0	...	75,0		
82	86,1	90,1	87,9	73,5	72,0	...	53,5	84,5	74,5	41,0	9,5	...	73,0		
80	84,5	87,9	86,0	72,5	71,0	...	53,0	84,0	73,5	39,5	7,0	...	71,5		
78	82,8	85,7	84,0	72,0	70,0	...	52,5	83,5	72,5	37,5	6,0	...	69,5		

Table F.3 (continued)

Vickers Hardness Number		Knoop Hardness Number		Rockwell Hardness Number										Brinell Hardness Number	
HV1	HV0,1	HK1	HK0,5	HR15T	HR15T	HR30T	HRB	HRF	HR15T	HR30T	HR45T	HBS 10/500	HBS 2/20		
				Strip 0,25 mm	Strip 0,51 mm	Strip 1,02 mm and greater						Strip 2,03 mm	Strip 1,02 mm		
76	81,0	83,5	81,9	71,5	69,5	69,0	14,5	69,0	71,5	36,0	2,0	...	67,5		
74	79,2	81,1	79,9	71,0	68,5	67,5	11,5	67,5	70,0	34,0	...	...	66,0
72	77,6	78,9	78,7	70,0	67,5	66,0	8,5	66,0	69,0	32,0	...	...	64,0
70	75,8	76,8	76,6	69,5	66,5	64,0	5,0	64,0	67,5	30,0	...	...	62,0
68	74,3	74,1	74,4	69,0	65,5	62,0	2,0	62,0	66,0	28,0	...	...	60,5
66	72,6	71,9	71,9	68,0	64,5	60,0	...	60,0	64,5	25,5	...	...	58,5
64	70,9	69,5	70,0	67,5	63,5	58,0	...	58,0	63,5	23,5	...	...	57,0
62	69,1	67,0	67,9	66,5	62,0	56,0	...	56,0	61,0	21,0	...	...	55,0
60	67,5	64,6	65,9	66,0	61,0	54,0	...	54,0	59,0	18,0	...	...	53,0
58	65,8	62,0	63,8	65,0	60,0	51,5	...	51,5	57,0	15,5	...	...	51,5
56	64,0	59,8	61,8	64,5	58,5	49,0	...	49,0	55,0	13,0	...	...	49,5
54	62,3	57,4	59,5	63,5	57,5	47,0	...	47,0	53,0	10,0	...	...	48,0
52	60,7	55,0	57,2	63,0	56,0	44,0	...	44,0	51,5	7,5	...	...	46,5
50	58,9	52,8	55,0	62,0	55,0	41,5	...	41,5	49,5	4,5	...	...	44,5
48	57,3	50,3	52,7	61,0	53,5	39,0	...	39,0	47,5	1,5	...	...	42,0
46	55,8	48,0	50,2	60,5	52,0	36,0	...	36,0	45,0	...	...	...	41,0
44	53,9	45,9	47,8	59,5	51,0	33,5	...	33,5	43,0	...	...	...	...
42	52,2	43,7	45,2	58,5	49,5	30,5	...	30,5	41,0	...	...	...	...
40	51,3	40,2	42,8	57,5	48,0	28,0	...	28,0	38,5	...	...	...	...