Standard Tolerance Copper

MSS Products Ltd.

Dimensional tolerance for round, square and hexagonal rod and wire

			Tolerances'		
Nominal sizes		Round rod (diameter) and wireb		Square and hexagonal rod and wire (width across-flats)	
over	up to and including	Class A	Class B	Class A	Class B
2c	3	0	± 0,03	-	-
		-0,06			
3	6	0	± 0,04		± 0,06
		-0,08	-	-0,12	
6	10	0	± 0,05		±0,08
		-0,09		-0,15	
10	18	0	± 0,06		± 0,09
		-0,11		-0,18	
18	30	0	± 0,07		± 0,11
		-0,13		-0,21	
30	50	0	± 0,08		± 0,13
		-0,16		-0,25	
50	80	0	± 0,10		± 0,15
		-0,19		-0,30	
80	120	0	± 0,18		± 0,27
		- 0,30		-0,54	
120	160	0	± 0,30		± 0,32
		- 0,60		-0,63	

a: The tolerance specified are based on ISO h11 or ISO h13 for class A(minus tolerance only) and on ISO js11 or ISO js 13 for class B(plus/minus tolerances.)

b:The circularity (see 3.3) is included in the tolerance on diameter and shall not exceed half the tolerance specified above.

c:Including 2

Tolerance on width and thickness of bar and rectanglular wire

Nominal widths		Tolerance on width	Tolerance on nominal thickness	for range of thickness				
over	up to and including							
			From 0,5 up to and Including 3	Over 3 up to and including 10	over 6 up to and including 10	over 10 up to and including 18	over 18 up to and including 30	over 30 up to and including 40
1 b	10	± 0,08	± 0,05	± 0,06	± 0,08	-	-	-
10	18	±0,10	±0,05	±0,06	±0,08	±0,10	-	-
18	30	± 0,15	± 0,05	± 0,07	± 0,09	± 0,10	± 0,15	-
30	50	± 0,20	± 0,06	± 0,09	± 0,10	± 0,12	± 0,15	± 0,20
50	80	±0,25	±0,09	±0,10	±0,12	±0,15	±0,18	±0,25
80	120	± 0,30	-	± 0,12	± 0,15	± 0,18	± 0,23	± 0,30
120	160	± 0,40	-	-	± 0,18	± 0,20	± 0,25	± 0,35
160	200	± 0,50	-	-	± 0,20	± 0,25	± 0,30	± 0,40

a: where the ratio nominal thickness is grater than 20:1, tolerance shall be agreed between the purchaser and the supplier

b: Including 1.