

Standard tolerance

Dimensional tolerance for round, square and hexagonal rod and wire

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Nominal sizes over	up to and including	Round rod (diameter) and wire ^b		Tolerances ^c		Square and hexagonal rod and wire (width across-flats)	
		Class A	Class B	Class A	Class B	Class A	Class B
2c	3	-0,06	0 ± 0,03	-	-	-	-
	3	6	0 ± 0,04	-	-	± 0,06	± 0,06
	6	10	-0,08	0 ± 0,05	-0,12	-	± 0,08
	10	18	-0,09	0 ± 0,06	-0,15	-	± 0,09
	18	30	-0,11	0 ± 0,07	-0,18	-	± 0,11
	30	50	-0,13	0 ± 0,08	-0,21	-	± 0,13
	50	80	-0,16	0 ± 0,10	-0,25	-	± 0,15
	80	120	-0,19	0 ± 0,18	-0,30	-	± 0,27
	120	160	-0,30	0 ± 0,30	-0,54	-	± 0,32
	160	200	-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 rectangular wire

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Nominal widths over	up to and including	Tolerance on width	Tolerance on nominal thickness ^a					
			for range of thickness		for range of thickness		for range of thickness	
			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
	50	80	± 0,25	± 0,09	± 0,10	± 0,12	± 0,15	± 0,18
	80	120	± 0,30	-	± 0,12	± 0,15	± 0,18	± 0,23
	120	160	± 0,40	-	-	± 0,18	± 0,20	± 0,25
	160	200	± 0,50	-	-	± 0,20	± 0,25	± 0,30

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

b: Including 1.

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