



TOLERANCE TABLES

TOLERANCES FOR HOT ROLLED ROUND AND SQUARE BAR & ROUGH TURNED ROUNDS, AS PER BS 970: PART1: 1996

SIZE mm	PERMITTED VARIATION GENERAL APPLICATIONS			
	Primary-rolled round material		Re-rolled material	
	Diameter ± mm	Out of Section mm	Dia or width across flats ± mm	Out of section mm
≥16	-	-	0.2	0.3
>16 ≥26	-	-	0.3	0.5
>26 ≥38	-	-	0.4	0.6
>38 ≥51	-	-	0.5	0.8
>51 ≥64	-	-	0.6	0.9
>64 ≥76	-	-	0.7	1.1
>76 ≥90	1.3	2.0	0.7	1.1
>90 ≥120	1.5	2.3	0.8	1.2
>120 ≥160	2.0	3.0	-	-
>160 ≥200	2.5	2.8	-	-
>200	3.0	4.5	-	-

TOLERANCES FOR COLD DRAWN BAR, AS PER BS 970: PART3: 1991

Section	Size, Dia or width across flats	Permitted Variation	Section	Size, Dia or width across flats	Permitted Variation
	mm	mm		± mm	mm
Round	≥6 ≥18	+0 to 0.070	Flat (width)	<18	+0 to 0.110
	>18 ≥30	+0 to 0.085		>18 ≥30	+0 to 0.130
	>30 ≥50	+0 to -0.100		>30 ≥50	+0 to -0.160
	>50 ≥80	+0 to -0.120		>50 ≥80	+0 to -0.190
	>80 ≥100	+0 to -0.140		>80 ≥100	+0 to -0.220
Square & Hex.	≥6 ≥18	+0 to -0.090	Flat (thickness)	>100 ≥130	+0 to -0.350
	>18 ≥30	+0 to -0.110		>130 ≥160	+0 to -1.000
	>30 ≥50	+0 to -0.130		>160 ≥320	+0 to -2.000
	>50 ≥80	+0 to -0.160		<18	+0 to -0.110
	>80 ≥100	+0 to -0.250		>18 ≥30	+0 to -0.130
				>30 ≥50	+0 to -0.250
				>50 ≥80	+0 to -0.350

VALUES AND EQUIVALENTS ARE APPROXIMATE

Every care has been taken in the preparation of this technical data, however, no liability can be accepted for any errors or consequences arising from such.