



STANDARD MANUFACTURING TOLERANCES

The given standard manufacturing tolerance are applicable to the average shape. Some shapes required wider tolerance, and closer tolerance may be possible on request. For high magnesium alloys, special(wider) tolerances will be applicable.

TOLERANCE ON DIAMETERS OF RODS

DIAMETER	TOLERANCE
Up to 12.0	+/- 0.20
Over 12 Up to 25	+/- 0.25
Over 25 Up to 40	+/- 0.30
Over 40 Up to 50	+/- 0.38
Over 50 Up to 56	+/- 0.46
Over 56 Up to 71	+/- 0.53
Over 71 Up to 80	+/- 0.61
Over 80	+/- 1% of diameter

TOLERANCES ON WIDTHS (METAL DIMENSION)

WIDTH AND WIDTH ACROSS FLATS	TOLERANCE
6.4	+/- 0.20
10	+/- 0.23
12	+/- 0.25
16	+/- 0.28
25	+/- 0.30
32	+/- 0.38
50	+/- 0.46
60	+/- 0.53
80	+/- 0.69
100	+/- 0.75
120	+/- 0.85
160	+/- 1.02
200	+/- 1.14

TOLERANCES ON THICKNESS OF REGULAR SECTIONS AND BARS

THICKNESS OF SECTION	WIDTH OF SECTION													
	12	16	20	25	32	40	50	63	80	100	125	160	200	
1.2	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1.6	0.18	0.20	0.20	0.20	0.20	*	*	*	*	*	*	*	*	*
2	0.18	0.20	0.20	0.20	0.20	0.23	0.25	0.28	0.30	0.33	0.36	0.38	0.41	0.41
2.5	0.18	0.20	0.20	0.20	0.20	0.23	0.25	0.28	0.30	0.33	0.36	0.38	0.41	0.43
3.2	0.18	0.20	0.20	0.20	0.23	0.25	0.28	0.30	0.33	0.36	0.38	0.41	0.43	0.46
4	0.20	0.23	0.23	0.23	0.25	0.28	0.30	0.33	0.36	0.38	0.41	0.43	0.46	0.46
5	0.20	0.23	0.23	0.23	0.25	0.28	0.30	0.33	0.36	0.38	0.41	0.43	0.46	0.46
6	0.20	0.23	0.23	0.23	0.25	0.28	0.30	0.33	0.36	0.41	0.46	0.51	0.56	0.56
8	0.23	0.25	0.25	0.25	0.28	0.30	0.33	0.36	0.38	0.43	0.48	0.53	0.58	0.58
10	0.23	0.25	0.25	0.25	0.28	0.30	0.33	0.36	0.38	0.43	0.48	0.53	0.58	0.58
12	0.25	0.28	0.28	0.28	0.30	0.33	0.36	0.38	0.41	0.46	0.48	0.53	0.58	0.58
16	0.28	0.30	0.30	0.30	0.33	0.36	0.38	0.41	0.43	0.48	0.51	0.56	0.61	0.61
20		0.30	0.30	0.30	0.36	0.38	0.41	0.43	0.46	0.51	0.53	0.61	0.69	0.69
25		0.30	0.30	0.30	0.36	0.38	0.41	0.43	0.46	0.51	0.53	0.61	0.69	0.69
32					0.38	0.41	0.43	0.46	0.48	0.53	0.56	0.66	0.74	0.74
40						0.46	0.48	0.51	0.53	0.56	0.61	0.71	0.79	0.79
50							0.53	0.56	0.58	0.61	0.66	0.76	0.84	0.84
63								0.61	0.64	0.66	0.71	0.81	0.89	0.89
80									0.69	0.71	0.74	0.86	0.94	0.94
100										0.76	0.79	0.91	0.99	0.99