

Round - diameter

Specified width or depth (in)	Deviation of mean from specified (in) - plus & minus All alloys	Maximum deviation at any point From specified ¹ (in) - plus & minus	
		1100,3003, 5052,5086	2014,2024,6061, 6063,7075
Up thru .500	.003	.003	.006
.501 - 1.000	.004	.004	.008
1.001 - 2.000	.005	.005	.010
2.001 - 3.000	.006	.006	.012
3.001 - 5.000	.008	.008	.016
5.001 - 6.000	.010	.010	.020
6.001 - 8.000	.015	.015	.030
8.001 - 10.000	.025	.020	.040
10.000 - 12.000	.025	.025	.050

¹See note under round extruded.

Round - diameter

Specified width or depth (in)	Tolerance - in. plus and minus			
	Allowable deviation of mean diameter from specified diameter	Allowable deviation of diameter at any point From specified diameter		
		Non-annealed and non-heat-treated tube	Heat-treated tube	Annealed tube
Up thru .500	.003	.003	.003	.006
.501 - 1.000	.004	.004	.004	.008
1.001 - 2.000	.005	.005	.005	.010
2.001 - 3.000	.006	.006	.006	.012
3.001 - 5.000	.008	.008	.008	.016
5.001 - 6.000	.010	.010	.010	.020
6.001 - 8.000	.015	.015	.015	.030
8.001 - 10.000	.025	.025	.020	.040
10.000 - 12.000	.025	.025	.025	.050

Round - straightness^{1,2}

Specified OD or width (in)	Allowable deviation from straight (in)	
	In each foot of length	In total length of piece
Under .375	.500	.500 x length, ft
.375 - 5.999	.010	.010 x length, ft
6.000 or larger	.020	.020 x length, ft

¹Not applicable to annealed (-0) temper tube.

²Not applicable to lengths under 10 feet.

Round - wall thickness

Specified width or depth (in)	Deviation of mean from specified (in) - plus & minus	Maximum deviation at any point From specified ¹ (in) - plus & minus	
		1100,3003, 5052,5086	2014,2024, 6061, 6063; 7075
.010 - .035	.002	.002	Plus & minus 10% of specified wall thickness. Min ± .003
.036 - .049	.003	.003	
.050 - .083	.004	.004	
.084 - .120	.005	.006	
.121 - .203	.006	.008	
.204 - .300	.008	.012	
.301 - .375	.015	.020	
.376 - .500	.020	.030	