

Technical Data

Tolerances by Grade for Individual Balls

	Ball Grade	Allowable Ball Diameter Variation	Allowable Deviation From Spherical Form	Maximum Surface Roughness Arithmetic Average
Inch	Grade			
	3	.000003	.000003	0.5
	5	.000005	.000005	0.8
	10	.000010	.000010	1
	16	.000016	.000016	1
	24	.000024	.000024	2
	48	.000048	.000048	3
	100	.0001	.0001	5
	200	.0002	.0002	8
	500	.0005	.0005	*
1000	.001	.001	*	
Metric μm	3	0.08	0.08	0.012
	5	0.13	0.13	0.02
	10	0.25	0.25	0.025
	16	0.4	0.4	0.025
	24	0.6	0.6	0.05
	48	1.2	1.2	0.08
	100	2.5	2.5	0.125
	200	5	5	0.2
	500	13	13	*
	1000	25	25	*