



Ball Grades



Grade	Diameter Tolerance per Ball		Sphericity		Diameter Tolerance per Unit Container		Basic Diameter Tolerance		Maximum Surface Roughness Micro	
	<i>Inch</i>	μ	<i>Inch</i>	μ	<i>Inch</i>	μ	<i>Inch</i>	μ	<i>Inch</i>	μ
3	.000003	0.076	.000003	0.076	.000005	0.127	±.00003	± 0.076	0.5	0.013
5	.000005	0.127	.000005	0.127	.00001	0.25	±.00005	± 0.127	0.8	0.02
10	.000010	0.25	.000010	0.25	.00002	0.51	± .0001	± 2.5	1.0	0.025
15	.000015	0.38	.000015	0.38	.00003	0.76	± .0001	± 2.5	1.2	0.03
25	.000025	0.63	.000025	0.63	.00005	1.27	± .0001	± 2.5	1.5	0.038
50	.00005	1.27	.00005	1.27	.0001	2.5	± .0002	± 5	3.0	0.075
100	.0001	2.5	.0001	2.5	.0002	5	± .0005	± 5	5.0	0.125
200	.0002	5	.0002	5	.0004	10	± .0010	± 10	8.0	0.2
300	.0003	7.5	.0003	7.5	.0006	15	± .0015	± 37.5		
500	.0005	12.5	.0005	12.5	.001	25	± .002	± 50	<i>Not Applicable</i>	<i>Not Applicable</i>
1000	.001	25	.001	25	.002	50	± .005	± 125		
2000	.002	50	.002	50	.004	100	± .005	± 125		