

PRECISION SPHERES

Goodfellow Ceramic and Glass Division are able to supply precision spheres to your requirements. The lists below give an indication of the typical sizes and materials available. Drilled spheres and half spheres (hemispheres) are also available – please ask.

Sizes: Depending on the material, typical sizes are normally within the following ranges:

Ceramic	0.4mm to 120mm diameter
Glass	0.3mm to 120mm diameter (anti reflection coating also available)
Sapphire and ruby	0.15mm to 12.5mm diameter
Plastic	1.5mm to 150mm diameter
Metal	0.4mm to 150mm diameter

Accuracy: General guidance on tolerances is given below

AFBMA Grade	DIAMETER TOLERANCE - microns	SPHERICITY - microns
3	±0.5	0.075
4	±0.5	0.100
5	±1	0.125
10	±2.5	0.250
15	±2.5	0.375
25	±2.5	0.625
50	±5	1.250
100	±10	2.500



Precision Spheres

Glass materials: Black glass, borosilicate glass, soda lime glass, crystal glass, quartz glass, optical glass & others

Ceramic materials: Alumina, zirconia, silicon nitride & others

Other materials: Ruby, sapphire, stainless steel & others

For more information and advice please discuss your application with our sales staff.

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