

CUSTOM SPHERES

asphericon’s product range includes plano-convex/plano-concave, bi-convex/bi-concave lenses as well as achromatic singlets, douplets and triplets in a wide variety of geometries and materials.

Specifications	Standard-Quality	Precision-Quality	High-End-Finishing
Diameter	8 – 300 mm	8 – 300 mm	8 – 300 mm
Diameter Tolerance	± 0.1 mm	± 0.1 mm	± 0.1 mm
Center Thickness	2 > CT < 100 mm	2 > CT < 100 mm	2 > CT < 100 mm
Center Thickness Tolerance	± 0.1 mm	± 0.03 mm	± 0.01 mm
Tolerance of Radius	± 0.1%	± 0.01%	± 0.01%
Tilt	300°	30°	15°
Surface Irregularity	0.8 fr	0.3 fr	0.3 fr
Surface Imperfections (Scratch/Dig)	60 - 40	40 - 20	20 - 10
Surface Roughness Rq	2 nm	1.5 nm	0.5 nm
Coating	Customer-specific		
Materials	Customer-specific (crystals, germanium, silicon, metals, PMMA, IR materials)		
RoHS & REACH Conformity	Certified		

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