Shanghai® optics

Our Optics, Your Vision

Lens Production | Optical Products | Crystal Products | Filters | Custom Coatings

Newsletter

January 2012

Kindly note that Chinese New year is approaching in about 2 weeks and our production will be closed from January 16th to February 6th, 2012. Our capacity fill up fast with the holiday approaching. To ensure we can meet your needs, please review any current demand on existing products we have in place for advance planning.

Spherical Lens

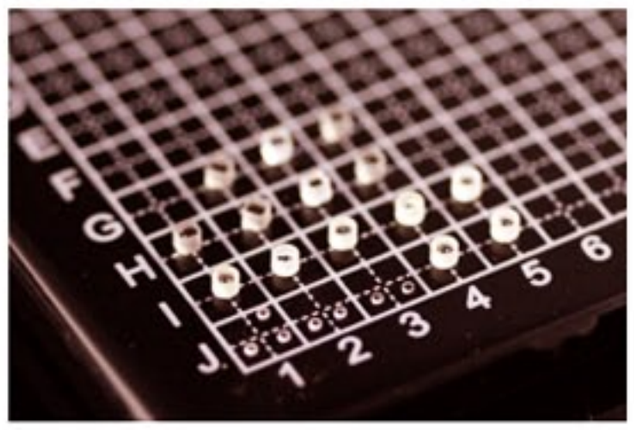
Fused Silica Spherical Lenses are useful for a wide range of applications. Plano-concave, bi-concave, meniscus, plano-convexand bi-convex lenses are manufactured to exacting Shanghai Optics Laser Quality surface figure and surface quality specifications.
This high standard of quality provides exceptional performance in demanding applications. For high energy laser applications. These spherical singlet lenses are manufactured from UV Grade fused silica and can be supplied AR coated or uncoated.

Specifications

		Parameters	Tolerance	NOTE
Diameter		20mm	+0/-0.05mm	custom-tailor
Center Thickness		3	±0.05mm	
Material		Fused Silica		
Clear Aperture		⩾90%		
Coating				custom-tailor
Surface Quality		10/5		
Centeration		5 arc min		
Radius	S1	27.2 CX		
	S2	27.2CC		
Surface Accuracy		λ /8@633nm		
Chamfer		0.35mm at 45° typical		

Spherical Microlens

This lens is manufactured from SF11 for VIS and NIR applications and are supplied coated or uncoated. SF11 is generally used instead of BK7 to minimize aberrations from short focal length lenses. The higher refractive index provides for a less- steeply angled surface and a better transmitted wavefront.
When used to focus a collimated beam, the light should be incident on the curved surface of the lens. SF11 lenses may be combined with other lenses to form complex systems.
To order an antireflection coated lens the wavelength in nanometers should be appended to the part number.
Please call your Shanghai Optics sales engineer for pricing and delivery details.



Specifications

		Parameters	Tolerance	NOTE
Diameter		0.8mm	±0.05mm	custom-tailor
Center Thickness		0.5mm	±0.05mm	
Material		N-SF11		
Clear Aperture		⩾90%		
Coating				custom-tailor
Surface Quality		20/10		
Centeration		5 arc min		
Radius	S1	0.83 CX		
	S2	2.4 CC		
Surface Accuracy		λ /2@633nm		
Damage Threshold		0.3Gw/cm²