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### roducts

- Spherical lenses (en\_list.asp?dh=gxyj&classid=4)
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### Plano-concave spherical lenses

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Plano-Concave Lenses are the best choice where object and image are at absolute conjugate ratios greater than 5:1 and less than 1:5 to reduce spherical. Plano-Concave lenses bend parallel input rays so they diverge from one another on the output side of the lens and hence have a negative focal length. The spherical aberration of the Plano-Concave lenses is negative and can be used to balance aberrations

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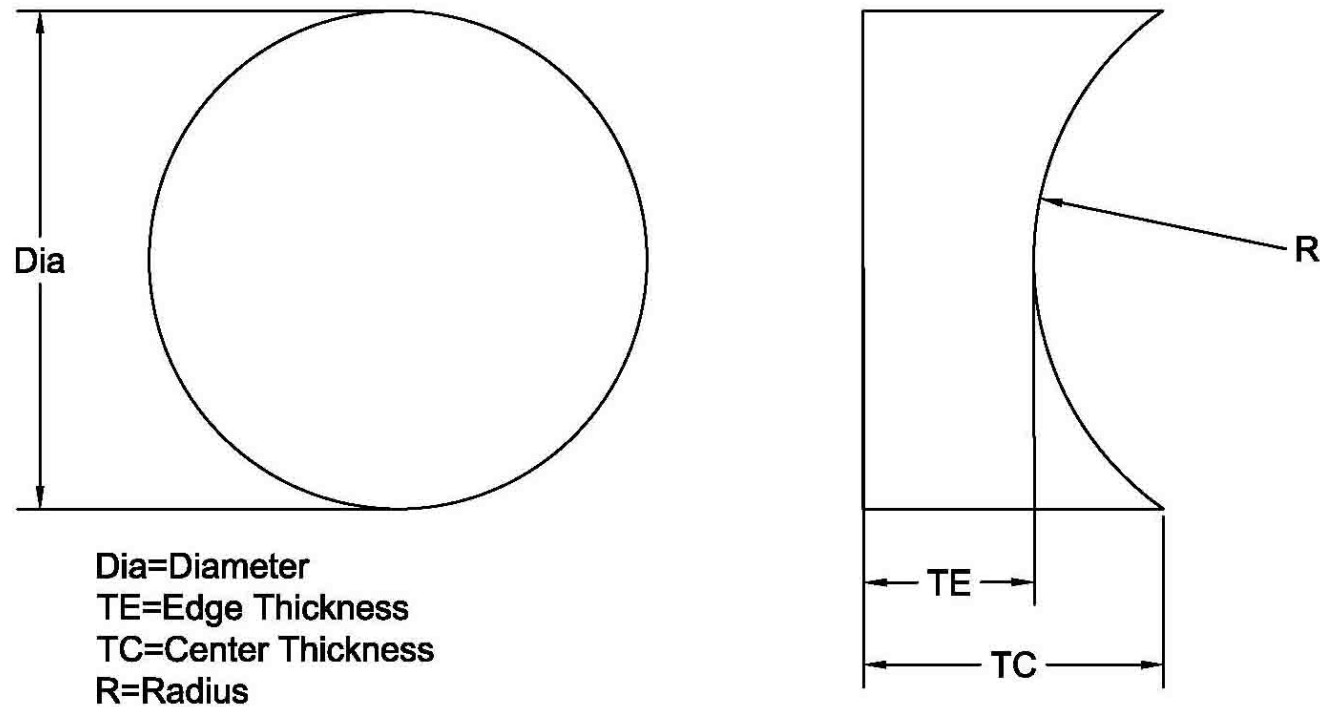
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created by other lenses. Similar to the Plano-Convex lenses, the curvature surface should face the largest object distance or the infinite conjugate (except when used with high-energy lasers where this should be reversed to eliminate the possibility of a virtual focus) to minimize spherical aberration.

Atoptical provides these lenses with the material of BK7, fused silica, Si, Ge, CaF2, or other optical glass and crystal ect..



Specifications	Normal	High Precision	Mfg. Limit



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<b>Material :</b>	N-BK7	N-BK7	N-BK7
<b>Design Index:</b>	1.5168	1.5168	1.5168
<b>Diameter Tolerance :</b>	+0/-0.1mm	+0/-0.05mm	+0/-0.02mm
<b>Thickness Tolerance :</b>	+/-0.1mm	+/-0.05mm	+/-0.01mm
<b>Focal Length Tolerance:</b>	+/-2%	+/-1%	+/-0.5%
<b>Centeration :</b>	3 arc min	1 arc min	30 arc sec
<b>Surface Quality :</b>	60-40	40-20	10-5
<b>Surface Figure :</b>	3 lambda	2 lambda	1 lambda
<b>Surface Irregularity :</b>	1 lambda	1/5 lambda	1/10 lambda
<b>Clear Aperture :</b>	>80%	>90%	100%
<b>Bevel :</b>	+/-0.2mm*45 deg	+/-0.1mm*45 deg	+/-0.05mm*45 deg

Other materials are also available.

AR coating is available upon request.

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