



www.knighthoptical.com | Tel: +1 401 583 7846 | Fax: +1 401 583 7851
Knight Optical (USA) LLC | 1130 Ten Rod Road, Suite D102 | North Kingsdown RI 02852 USA
www.knighthoptical.com | Tel: +44 (0) 1622 859444 | Fax +44 (0) 1622 859555
Knight Optical (UK) Ltd | Roebuck Business Park | Harrietsham | Kent ME17 1SB UK

KO | BRINGING QUALITY INTO FOCUS

Meniscus Lenses for Optical Systems

Knight Optical can offer [Meniscus Lenses](#) for use within Optical Systems.

We supply a range of Meniscus lenses for a range of applications. All individually QA checked and metrology tested for quality to ensure parts meet customer specification. Supplied in a range of sizes and shapes with custom coatings tailored to meet your individual applications.

Knight Optical supply precision optical components to customers with Optical systems. Any spherical surface will introduce spherical aberrations to an optical system. Meniscus lenses are designed with the curvatures of the lens in mind to minimise these spherical aberrations. This effect is more noticeable with higher index glasses as spherical aberrations increase with the change in index.

Meniscus lenses can be an effective compromise on cost and aberration when compared to using aspheric lenses or multiple lens.

Typical specs:

Material:	N-BK7 or equivalent, UV Fused Silica, SF11 or equivalent
Shape:	Positive Meniscus, Negative Meniscus
Dimensional Tolerances:	+/- 0.1mm
Centering:	< 3 arcminutes
Surface Quality:	< 40-20 Scratch/Dig
Surface Figure:	< 5(1) @ 633nm
Coating:	Antireflective coatings for application bandwidth (if required)

All our Meniscus Lenses are fully inspected on their quality in our ISO 9001 certified, state-of-the-art Metrology laboratory, using our Zygo Verifire Interferometer and Trioptics OptiSpheric/OptiCentric. This allows us to work to the highest [QA standards](#) and meet the tolerance specifications on these **precision components**.

[Contact our technical sales team](#) to discover how Knight Optical's high quality Meniscus Lenses and superior service can improve your instrumentation and supply chain experience.

UK, Europe, Asia & RoW: E-Mail info@knighthoptical.co.uk Tel +44 (0)1622 859444

USA & Canada: E-Mail usasales@knighthoptical.com Tel +001 401-583-7846

- [View our QA and metrology information](#)
- [Watch our Corporate Video](#)
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