



Discover how we can improve your  
instrumentation and supply chain  
experience today!

## KO | BRINGING QUALITY INTO FOCUS

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### UV Fused Silica Lenses for Solid State Lasers

**Knight Optical** can offer UV Fused Silica Lenses for Solid State Laser applications.

UV FS is a prime choice for lenses in use with Solid State Lasers due to its consistently high transmission in the UV/VIS/NIR regions. This means that it can be used with a range of different laser types, such as Titanium-doped sapphire (tunable to 660-1080nm) or Alexandrite (tunable to 700-820nm) with very little change in performance.

UV FS is comparable to N-BK7 or other similar optical glasses in its performance, having a very similar average transmission over the VIS range up to approximately 2000nm and a slightly lower refractive index. The Abbe constants of UV FS are also very similar to that of N-BK7, although slightly higher.

#### Typical specs:

<b>Material:</b>	<a href="#">UV Grade Fused Silica</a>
<b>Operating Wavelength</b>	587nm
<b>Diameter Tolerance:</b>	+0 / -0.10mm
<b>Centring Tolerance</b>	<5 arc min
<b>Focal Length Tolerance:</b>	± 0.2mm (<10mm) ±2.0% (10mm – 1000mm)
<b>Centre Thickness Tolerance</b>	±0.2mm
<b>Surface Figure</b>	3/ 3 (1)
<b>Surface Quality:</b>	<a href="#">&lt;40-20 Scratch/Dig</a>
<b>Coating:</b>	Optional

**All our UV Fused Silica Lenses are fully inspected on their quality in our ISO 9001 certified, state-of-the-art Metrology laboratory**, using our Trioptics Optispheric, and Starrett AV300 and Zygo Verifire XPZ. 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 UV FS lenses and superior service can improve your instrumentation and supply chain experience.

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