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KO | BRINGING QUALITY INTO FOCUS

Calcium Fluoride Lenses for the Oil and Gas Industry

Knight Optical can offer [Calcium Fluoride Lenses](#) for use within the Oil and Gas Industry.

We supply a range of calcium fluoride 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 in the oil and gas industry for use within detectors and spectrophotometers. For spectroscopy, calcium fluoride is superior to many other materials such as N-BK7 or fused quartz due to a lack of OH absorption peaks.

Due to calcium fluoride's low absorption and reflection and high damage threshold these lenses can often be used uncoated and are ideal for use in laser applications as well as thermal imaging systems, spectroscopy and high energy neutron detection.

Typical specs:

Material:	Calcium Fluoride (CaF ₂)
Shape:	Spherical Lenses, Cylindrical Lenses=
Dimensional Tolerances:	+/- 0.1mm
Centering:	< 3 arcminutes
Surface Quality:	<40-20 Scratch/Dig < 0.5 λ PV@ 633nm
Coating:	Antireflective coatings for application bandwidth (if required) Typically BBAR @1-14μm Diamond-Like carbon (DLC) coating @ 1-14μm

All our Calcium Fluoride 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 Calcium Fluoride Lenses and superior service can improve your instrumentation and supply chain experience.

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