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## Products & Ser..

Your Are Here: [Products & Services](#)> [Precision optical compoments](#)> [IR Lens](#)> [Calcium Fluoride](#)

- Spherical Lens
- Achromatic Lens
- Ball Lens
- IR Lens
- Aspheric Lens
- Prism
- Mirror
- Optical Filter
- Window
- Cylindrical Lens
- Lens Assembly
- Rod Lens
- Test Plates

## Calcium Fluoride

- |                  |               |
|------------------|---------------|
| Silicon          | Germanium     |
| Calcium Fluoride | Sapphire      |
| Zinc Sulfide     | Zinc Selenide |

### Calcium Fluoride Lenses

Calcium Fluoride lenses are an excellent choice of material for making lenses for UV to NIR wavelength (180 nm-8 microns). It has a high average transmission and low chromatic aberration compared to various IR materials. In NIR regime it has a very low GVD which makes it suitable for applications using femtosecond IR pulses.

Calcium Fluoride (CaF<sub>2</sub>) has excellent transmission in the ultraviolet range. Often used for windows requiring high transmittance from 150 nm to 9000 nm. Calcium Fluoride can be used in the ultraviolet, visible and infrared spectral regions. Calcium Fluoride has a transmission above 90% between 0.25 μm and 7 μm. CaF<sub>2</sub> windows are relatively soft and somewhat hygroscopic so polishing, coating and handling are more critical than UV Fused Silica windows. Polished surfaces are stable and will last several years under normal conditions. Calcium Fluoride is twice as hard as Barium Fluoride and also less susceptible to thermal shock.

#### Specifications:

Material: CaF<sub>2</sub>  
 Diameter Tolerance: +0.00, -0.15mm(Standard), +0.00,-0.02mm(Precision)  
 Flatness: λ@632.8nm  
 Surface Quality: 80-50 S/D  
 Paraxial Focus Length: +/-2%  
 Centration: <5arc minutes  
 Clear Aperture: >85% of diameter  
 Bevel: 0.25x45deg



[back](#)

### About Us

- About Us
- Contact

### Products & Servers

- Standard products
- Precision optical compoments
- Coatings

### News

### TOP

[Home](#)