

## Calcium Fluoride

Fluorite crystals have a wide transmissive range from below 0.13  $\mu\text{m}$  (UV) to over 10  $\mu\text{m}$  (IR). Within this region  $\text{CaF}_2$  also has a low index and dispersion. Some applications include astronomical and field telescopes, analytical equipment, optical windows, prisms, and infrared lenses. UV grade  $\text{CaF}_2$  can be used to make deep UV lenses as well as optical components for excimer lasers.



## SPECIFICATIONS

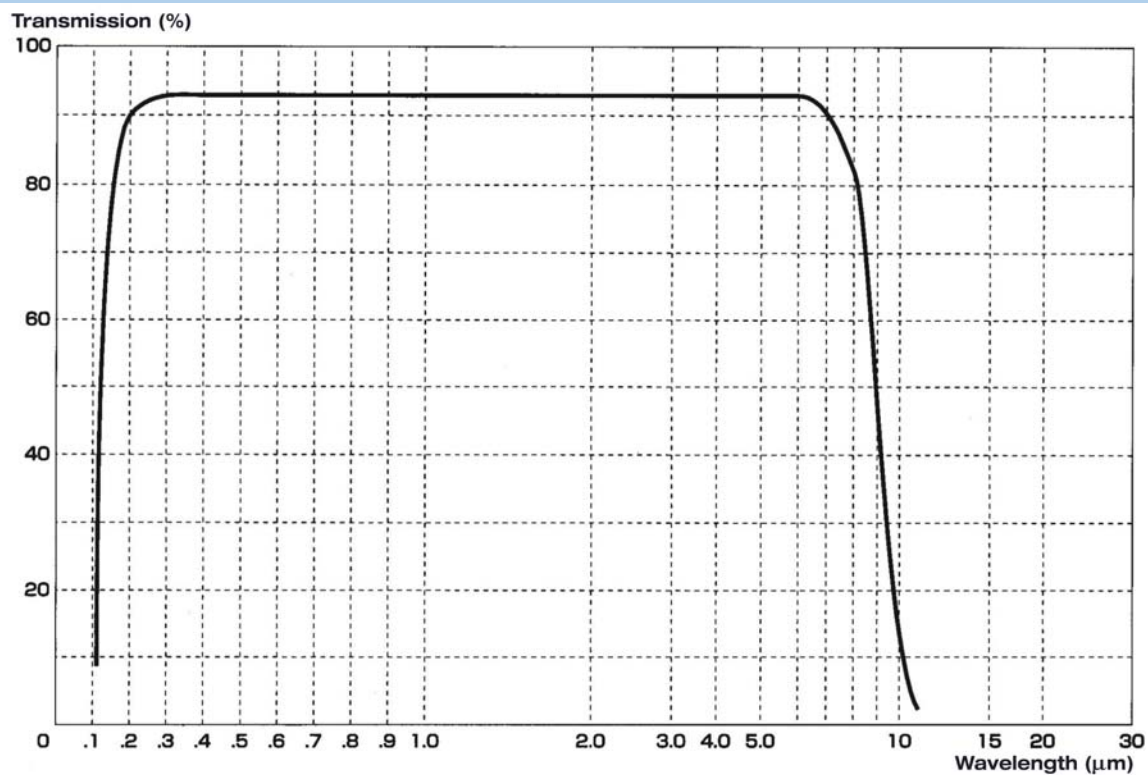
- Transmission range ( $\mu\text{m}$ ): 0.13~10
- Refractive index: 1.39895 at 5  $\mu\text{m}$
- Density: 3.18
- CTE:  $24 \times 10^{-6}/\text{C}$
- Available in Blanks Up To 350 mm Diameter
- For Use in Astronomical Telescopes and Excimer Lasers
- Suitable for IR and UV Systems



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# Optical Crystals - Calcium Fluoride



## Refractive Index Table

Wavelength (μm)	Refractive Index	Wavelength (μm)	Refractive Index
0.4047	1.44151	2.000	1.42385
0.4358	1.43949	3.000	1.41785
0.4861	1.43704	4.000	1.40963
0.5461	1.43496	5.000	1.39895
0.5876	1.43387	6.000	1.38559
0.6563	1.43248	7.000	1.36932
0.7682	1.43091	8.000	1.34983