

The Future Made Clear



OPTICAL CRYSTALS CALCIUM FLUORIDE



Calcium Fluoride

Fluorite crystals have a wide transmissive range from below 0.13 μm (UV) to over 10 μm (IR). Within this region 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 CaF_2 can be used to make deep UV lenses as well as optical components for excimer lasers.



Specifications

- Transmission Range (μm): 0.13~10
- Refractive Index: 1.39895 at 5 μm
- Density: 3.18
- CTE: 17~19 ppm/ $^{\circ}\text{C}$: From 50-100 $^{\circ}\text{C}$
24 ppm/ $^{\circ}\text{C}$: From 20-600 $^{\circ}\text{C}$
- Available in blanks Up To 350 mm Diameter
- For use in Astronomical Telescopes and Excimer Lasers
- Suitable for IR and UV Systems

GET IN TOUCH

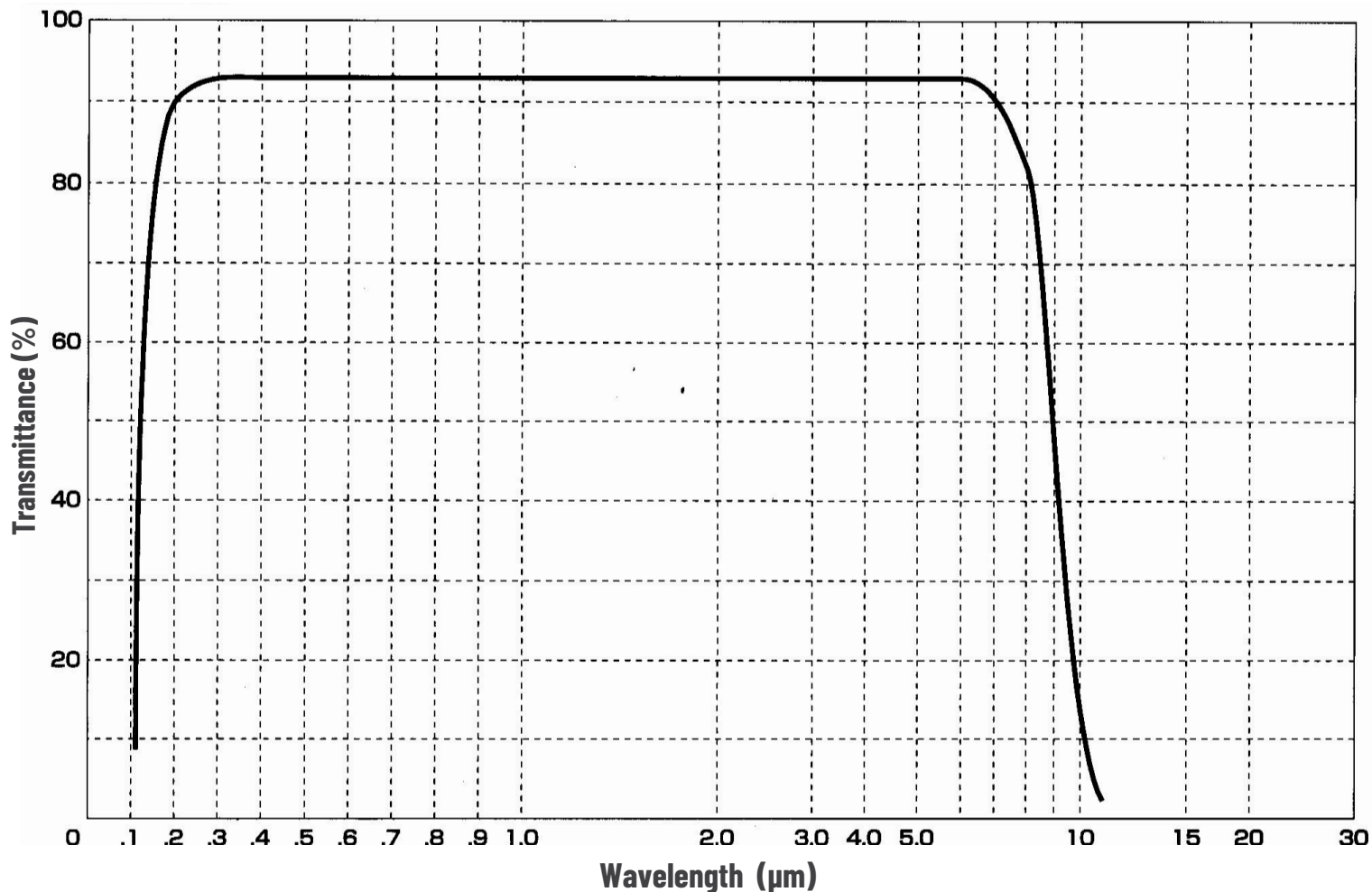
www.oharacorp.com

50 Columbia Road
Branchburg, NJ 08876
Tel: (908) 218-0100
Fax: (908) 218-1685

23141 Arroyo Vista #200
Rancho Santa Margarita, CA 92688
Tel: (949) 858-5700
Fax: (949) 858-5455



Transmission



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 |

Please contact us to discuss your specific requirements.

GET IN TOUCH

www.oharacorp.com

50 Columbia Road
Branchburg, NJ 08876
Tel: (908) 218-0100
Fax: (908) 218-1685

23141 Arroyo Vista #200
Rancho Santa Margarita, CA 92688
Tel: (949) 858-5700
Fax: (949) 858-5455