



# Calcium Fluoride for VIS-IR Applications

Our visible / infrared grade single crystal CaF<sub>2</sub> material is based on our long development history for high-quality single crystal CaF<sub>2</sub> used in the most demanding applications such as projection / illumination lenses for semiconductor lithography systems. Utilizing Nikon's years' of experience in crystal growing technology, strict process controls and newly introduced proprietary process technologies we can ensure compatibility with a wide range of demanding visible / infrared applications.



## ■Applications

- Lenses for microscopes, SLR cameras, digital cameras, TV cameras, video cameras, telescopes, astronomical telescopes
- Filters and windows for infrared analyzers
- Infrared night vision cameras

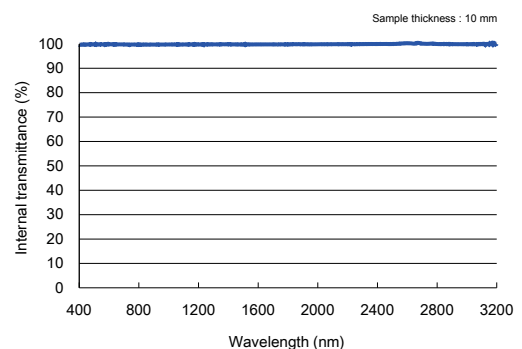
## ■Specifications

Please contact our sales staff to discuss your specific requirements

Size	~ φ 140 mm, ~t20 mm
Internal Transmittance (Sample thickness : 10 mm)	≥ 98 % (400 nm ~ 3000 nm)
Bubbles and Inclusions	Total number ≤ 5 (by visual inspection), Maximum size = 0.1 mm
Stress Birefringence	≤ 40 nm/cm
Homogeneity	≤ 10 ppm
Crystallization	Single crystal / poly crystal
Crystal Orientation	Not specified
Sub-grain Boundaries	Not specified
Surface Finishing	Fine grinding / polishing / coating

## ■Transmittance

Guaranteed high transmittance from visible to infrared wavelengths



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