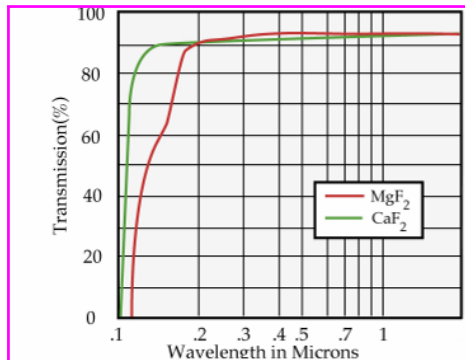


# Calcium and Magnesium Fluoride UV Windows



Calcium Fluoride and Magnesium Fluoride have excellent transmission in the UV.

They are often used to make windows with high



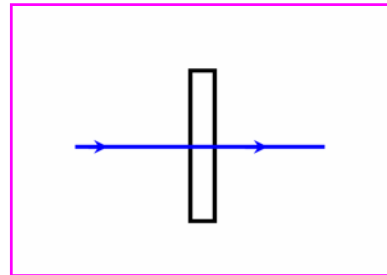
transmittance from below 150 nm and extending throughout the visible range.

These materials are relatively soft and somewhat hygroscopic so polishing and coating and handling are more critical than for Fused Silica windows.

The quality of a UV window can be extremely critical. It should be of high purity and polish in order not to affect the optical system. When large pressure differences are anticipated across the window extra thickness will be required to hold the flatness and parallelism specifications.

Calcium Fluoride and Magnesium Fluoride UV windows can be supplied in a wide range of sizes and to various levels of flatness and parallelism:

Material: Calcium Fluoride, Magnesium Fluoride  
 Diameter: 10.0, 12.7, 19.1, 20.0, 25.4, 30.0, 38.1, 40.0, 50.8 mm  
 Flatness:  $\lambda/10$ ,  $\lambda/4$   
 Parallelism: 10 arcsec, 3 arcmin



These windows are uncoated, but coatings may be applied if required – please ask.

Typical Specifications	
Substrate Material:	CaF <sub>2</sub> MgF <sub>2</sub>
Surface flatness:	$\lambda/10$ , $\lambda/4$
Surface quality:	20/10
Parallelism:	< 10 arcsec or 3 arcmin
Diameter:	+0.0 / -0.2 mm
Thickness:	± 0.25 mm
Clear aperture:	> 85% of diameter

**To request a quote or to order, please specify:**

Quantity — Material — Diameter — Flatness — Parallelism

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For a quotation – please phone, fax or email us with details of your requirements.