

Magnesium fluoride windows

The most frequently requested specifications for magnesium fluoride windows are as follows:

Diameter range	less than 5mm to 50mm
Diameter tolerance	better than ± 0.1 mm
Centre thickness	up to 30mm
Centre thickness tolerance	better than ± 0.05 mm
Clear aperture	90%
Centration tolerance	better than 1 arc minute
Form error	better than $\lambda/4$ (633nm) over aperture
Surface radius tolerance	less than 1 fringe over aperture (LINK tolerance datasheet)
Linear dimension	up to 50mm
Linear tolerance	better than ± 0.1 mm
Angular tolerance	better than 5 arc minutes
Edge finish	ground, blacked
Chamfer	0.3x0.3@45°
Surface quality	20-10 scratch/ dig

Coatings

BBAR coating @1-7 μ m

Diamond-Like Carbon (DLC) coating @1-7 μ m

Our capabilities are always expanding so if your requirement is not mentioned above please enquire as we have many years of experience in this field.

Contact our multilingual technical sales team and discover how Knight Optical's high quality magnesium fluoride window capabilities and service can improve your instrumentation and supply chain experience.