



www.knightrightoptical.com | Tel: +1 401 583 7846 | Fax: +1 401 583 7851
Knight Optical (USA) LLC | 1130 Ten Rod Road, Suite D102 | North Kingsdown RI 02852 USA
www.knightrightoptical.com | Tel: +44 (0) 1622 859444 | Fax +44 (0) 1622 859555
Knight Optical (UK) Ltd | Roebuck Business Park | Harrietsham | Kent ME17 1SB UK

KO | BRINGING QUALITY INTO FOCUS

Knightright Optical Magnesium Fluoride (MgF₂) Windows

Known for their resistance to mechanical and thermal shock, our [Magnesium Fluoride \(MgF₂\) Windows](#) are specified for a variety of applications operating in a range of harsh environments. Commonly employed for high-tech applications include excimer lasers, Fourier-transform infrared spectroscopy (FTIR), thermography and other [infrared \(IR\) systems](#), MgF₂'s durability and birefringent properties make for a sought-after optical window across a spectrum of industries. What's more, its stability in water means it's ideally suited for outer surfaces, such as windows.

With its birefringence (beneficial for polarisers in the UV waveband), transmittance between 0.1µm and 7µm and at over 90% between 0.4-5.0µm and hardness of circa HK576, MgF₂ is one of the hardest optical fluorides.

Here at Knight Optical, we stock a wide range of [MgF₂ Windows](#) suitable for a variety of diverse applications. Furthermore, for applications requiring tailored solutions, we also supply custom-made MgF₂ Windows in a range of sizes, shapes, substrates (including [infrared \[IR\] MgF₂ materials](#)) and tolerances for seamless integration with any device. Alongside our customised offering, we also supply MgF₂ Windows mounted into cells and can edge down stock in-house for quick lead times.

Typical Specs:

Material: Magnesium Fluoride (MgF₂)

Diameter: +/-0.2mm

Thickness: ± 0.2mm

Surface quality: <60-40 Scratch/Dig

First-Class Quality

Quality is the driving force behind Knight Optical, and to ensure you profit from high-precision optics, we take the utmost care to ensure every component accurately meets your specifications. Offering unparalleled service, Knight Optical undertakes a full inspection of your optics from our ISO 9001:2015-certified, state-of-the-art Metrology Laboratory, followed by a meticulous visual examination by our dedicated QA department.

To discover how we can enhance your supply chain experience and to learn more about our stock and custom-made MgF₂ Windows, [contact](#) a member of our technical sales team today.

UK, Europe, Asia & RoW: E-mail info@knightrightoptical.co.uk

Tel +44 (0)1622 859444

USA & Canada: E-mail usasales@knightrightoptical.com

Tel +001 401-583-7846

- View our [QA and Metrology information](#)
- View our [Catalogue](#)
- Watch our [Corporate Video](#)