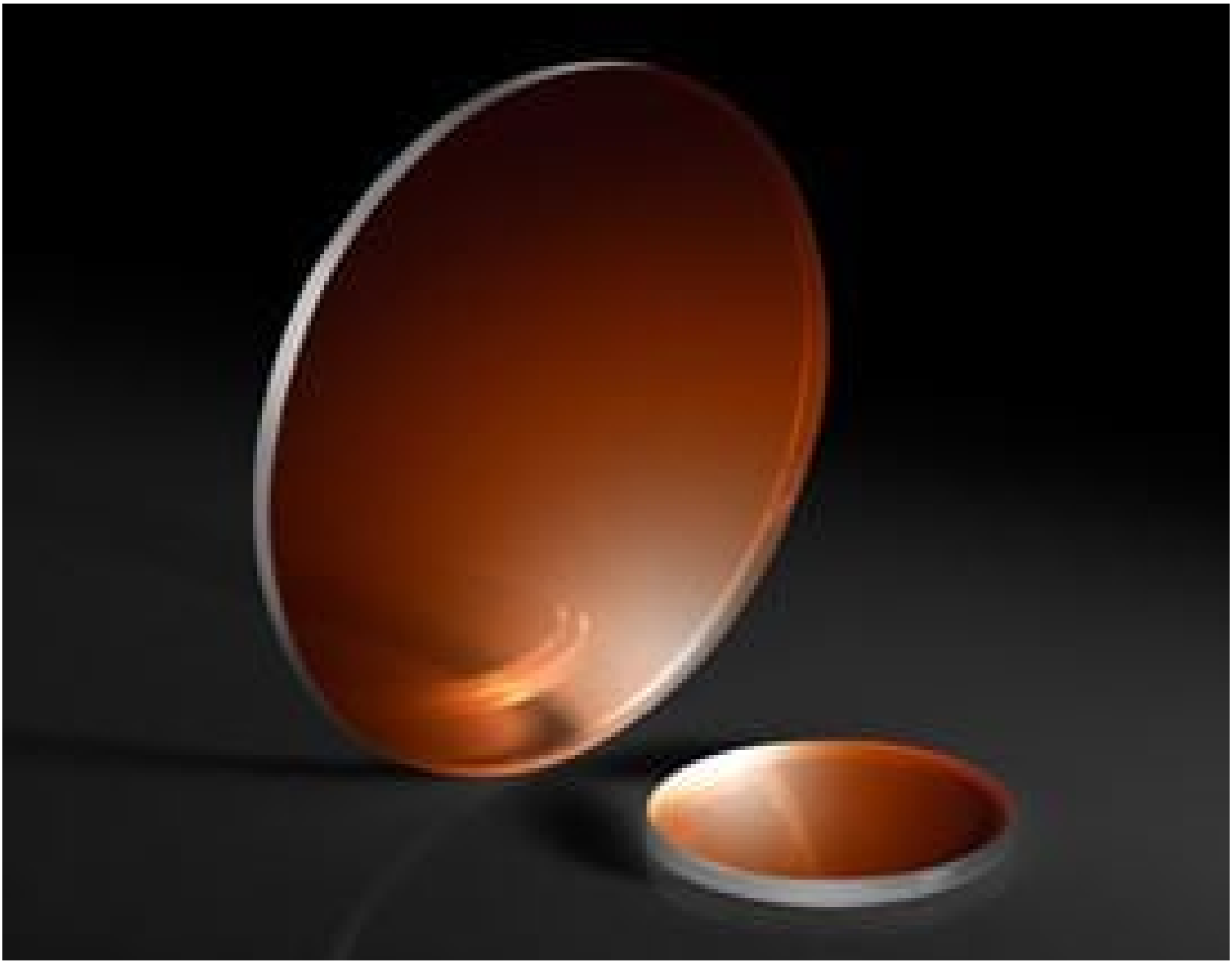
See all 8 Products in Family

TECHSPEC® 25mm Dia., 2mm Thick, Uncoated, Lithium Fluoride (LiF) Window



Lithium Fluoride (LiF) Windows

Stock **#19-728** CONTACT US

- 1 + **£275.20**

ADD TO CART

Volume Pricing	
Qty 1-10	**£275.20** each
Qty 11-25	**£247.20** each
Qty 26-49	**£233.60** each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Type:
Protective Window

Type of Window:
Crystal

Physical & Mechanical Properties

Clear Aperture CA (mm):

22.50

Diameter (mm):

25.00 +0.00/-0.10

Thickness (mm):

2.00 ±0.10

Parallelism (arcmin):

<3

Bevel:

Protective as needed

Clear Aperture (%):

90

Edges:

Fine Ground

Poisson's Ratio:

0.33

Young's Modulus (GPa):

64.97

Knoop Hardness (kg/mm^2):

102.00

Optical Properties

Coating:

Uncoated

Substrate:

Lithium Fluoride (LiF)

Index of Refraction (n_d):

1.392

Surface Quality:

60-40

Abbe Number (v_d):

97.29

Axis Orientation:

Random

Wavelength Range (nm):

150 - 6000

Surface Flatness (P-V):

λ/2 @ 632.8nm

Material Properties

Density (g/cm^3):

2.64

Coefficient of Thermal Expansion CTE (10^{-6}/°C):

37

Regulatory Compliance

Certificate of Conformance:

View

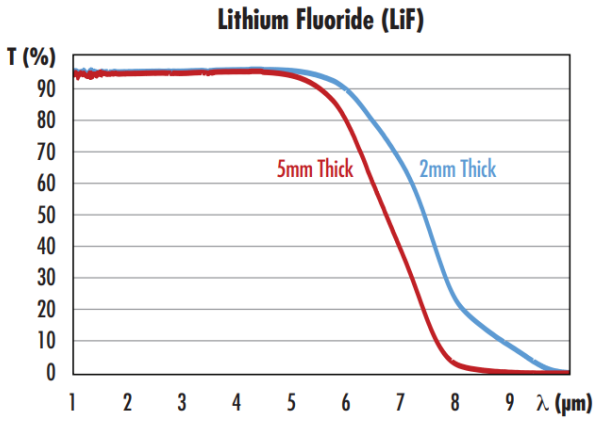
Product Details

- High Transmission from 150nm - 6µm
- Excellent Vacuum UV (VUV) Transmission
- Low Index of Refraction

Lithium Fluoride (LiF) Windows provide high, flat transmission from 150nm to 6µm. Lithium fluoride has excellent transmission in the vacuum ultraviolet (VUV) wavelength range of 150 - 200nm. Lithium fluoride also has a low index of refraction, allowing these windows to be used without an anti-reflection (AR) coating. Lithium Fluoride (LiF) Windows are ideal for use as UV transmission windows in spectroscopy applications, as a diffracting element in X-ray spectrometry, or as infrared windows for thermal imaging applications.

Note: Lithium fluoride is sensitive to thermal shock and is attacked by atmospheric moisture at temperatures above 400°C.

Technical Information



Special Handling

These optics require special handling to avoid damage and ensure long-term performance. Proper handling, cleaning, and storage are essential to maintain optical quality.
Explore our **Optics Cleaning Resources** for step-by-step guides and best practices. For personalized assistance, **Email us** or **Chat** with our technical support team.

Component Handling Tools

;