600 Grooves, 12.7mm Square, 1000nm NIR Ruled Grating
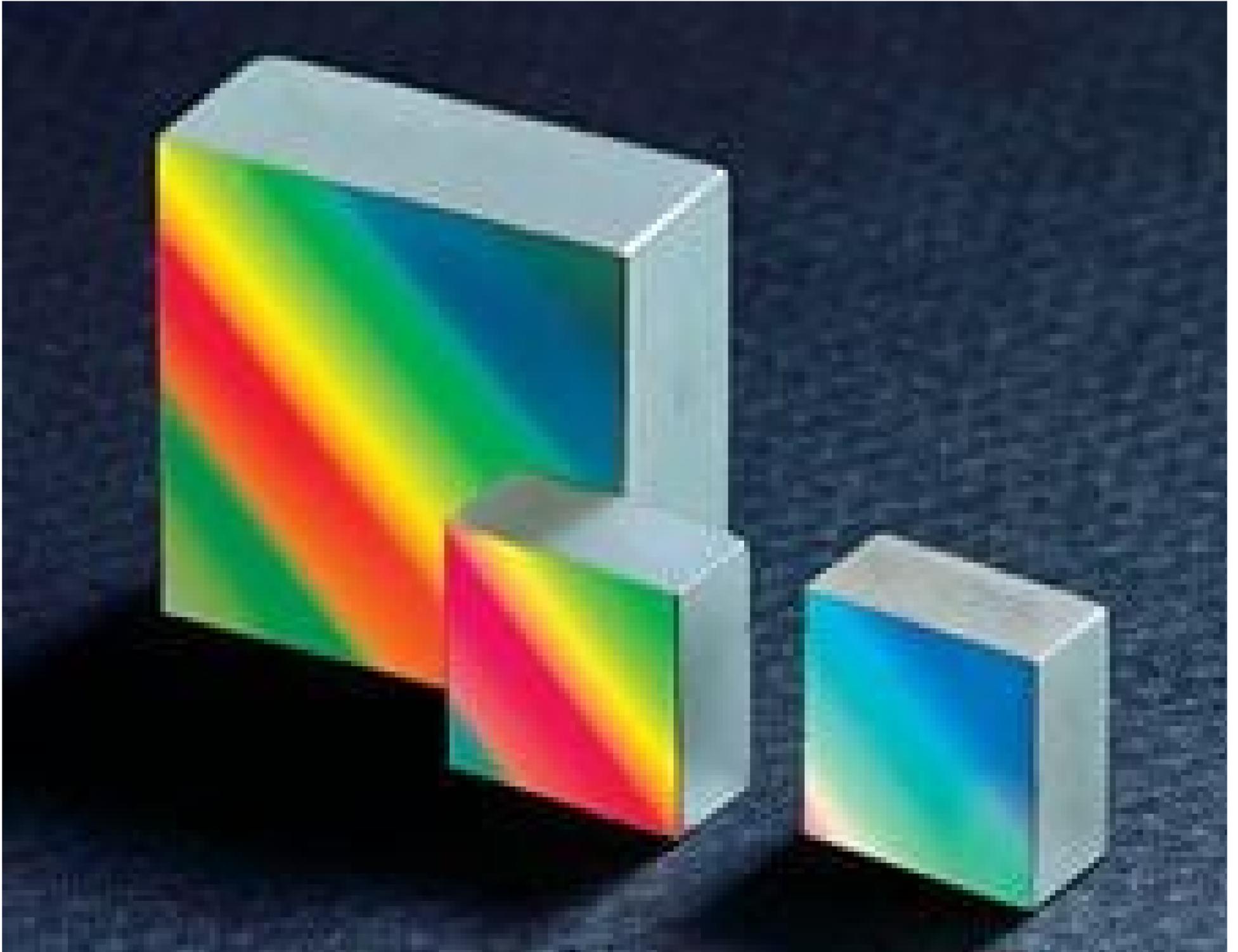

Stock **#49-570**   **20+ In Stock**

⊖   1   ⊕   **£124**.⁰⁰

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ADD TO CART

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Volume Pricing	
Qty 1-9	**£124.00** each
Qty 10-24	**£111.60** each
Need More?	**Request Quote**

ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Type:	
Reflective Diffraction Grating	

Physical & Mechanical Properties

Dimensions (mm):	
12.7 x 12.7 ±0.5	
Clear Aperture (%):	
90	

	Construction:
Ruled Grating	
	Direction of Grooves:
Parallel to Short Dimension	
	Length (mm):
12.70	
	Thickness (mm):
6.00 ±0.5	
	Width (mm):
12.70	
	Alignment of Grooves to Edge (°):
±0.5	

Optical Properties

	Groove Density (grooves/mm):
600	
	Wavelength Range (nm):
700 - 3000	
	Blaze Wavelength (nm):
1000	
	Blaze Angle (°):
17.45	
	Coating:
Bare Gold	
	Substrate:
Float Glass	

Regulatory Compliance

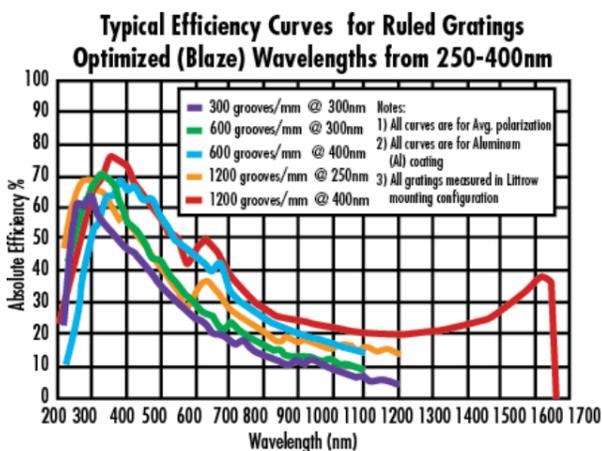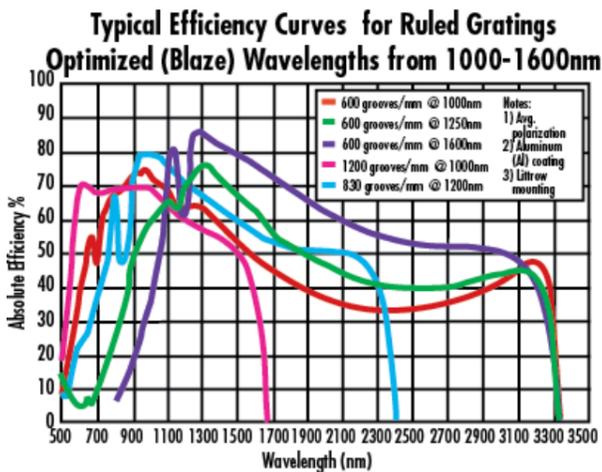|	RoHS 2015:
Compliant	
	Certificate of Conformance:
View	
	Reach 247:
Compliant	

Product Details

- Increased Reflection from 700 - 1100nm

Near-IR (NIR) Reflective Gold Gratings are ruled gold-coated versions of our commercial gratings. These gratings provide increased reflection from 700 - 1100nm. This makes them an excellent choice for applications such as fiber optic pulse compression and spectroscopy setups using **silicon detectors**. Near-IR (NIR) Reflective Gold Gratings feature a float glass substrate and a ruled grating construction. The gratings are available in three sizes, with varying groove densities and blaze wavelengths.

Handling Gratings: Gratings require special handling, making them prone to fingerprints and aerosols. Gratings should only be handled by the edges. Before attempting to clean a grating, please **contact us.**

Technical Information

Typical Efficiency Curves for Ruled Gratings Optimized (Blaze) Wavelengths from 1000-1600nm

Typical Efficiency Curves for Ruled Gratings Optimized (Blaze) Wavelengths from 250-400nm

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