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



Stock #49-570 **16 In Stock**

MRP ₹15,639

**i** Price inclusive of all taxes

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-9        | ₹15,639 each                  |
| Qty 10-24      | ₹14,074 each                  |
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### Product Downloads

### General

Reflective Diffraction Grating **Type:**

### Physical & Mechanical Properties

12.7 x 12.7 ±0.5 **Dimensions (mm):**

90 **Clear Aperture (%):**

**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](#)

**Country of Origin:**

United States

**Imported By:**

Edmund Optics India Private Limited  
267, Greystone Building, Second Floor,  
6th Cross Rd, Binnamangala,  
Stage 1, Indiranagar, Bengaluru,  
Karnataka, India 560038  
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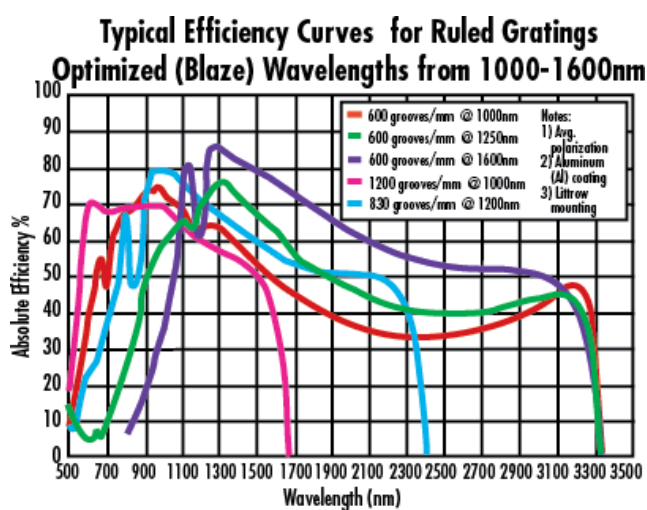
## Product Details

- Increased Reflection from 700 - 1100nm

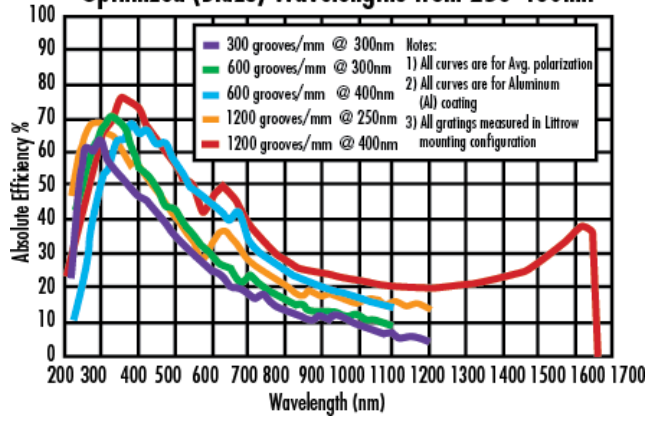
Near-IR (NIR) Reflective Gold Gratings are ruled gold-coated versions of our commercial gratings. These gratings provide increased reflection from 700 - 1100nm. This makes them an excellent choice for applications such as fiber optic pulse compression and spectroscopy setups using [silicon detectors](#). 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 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