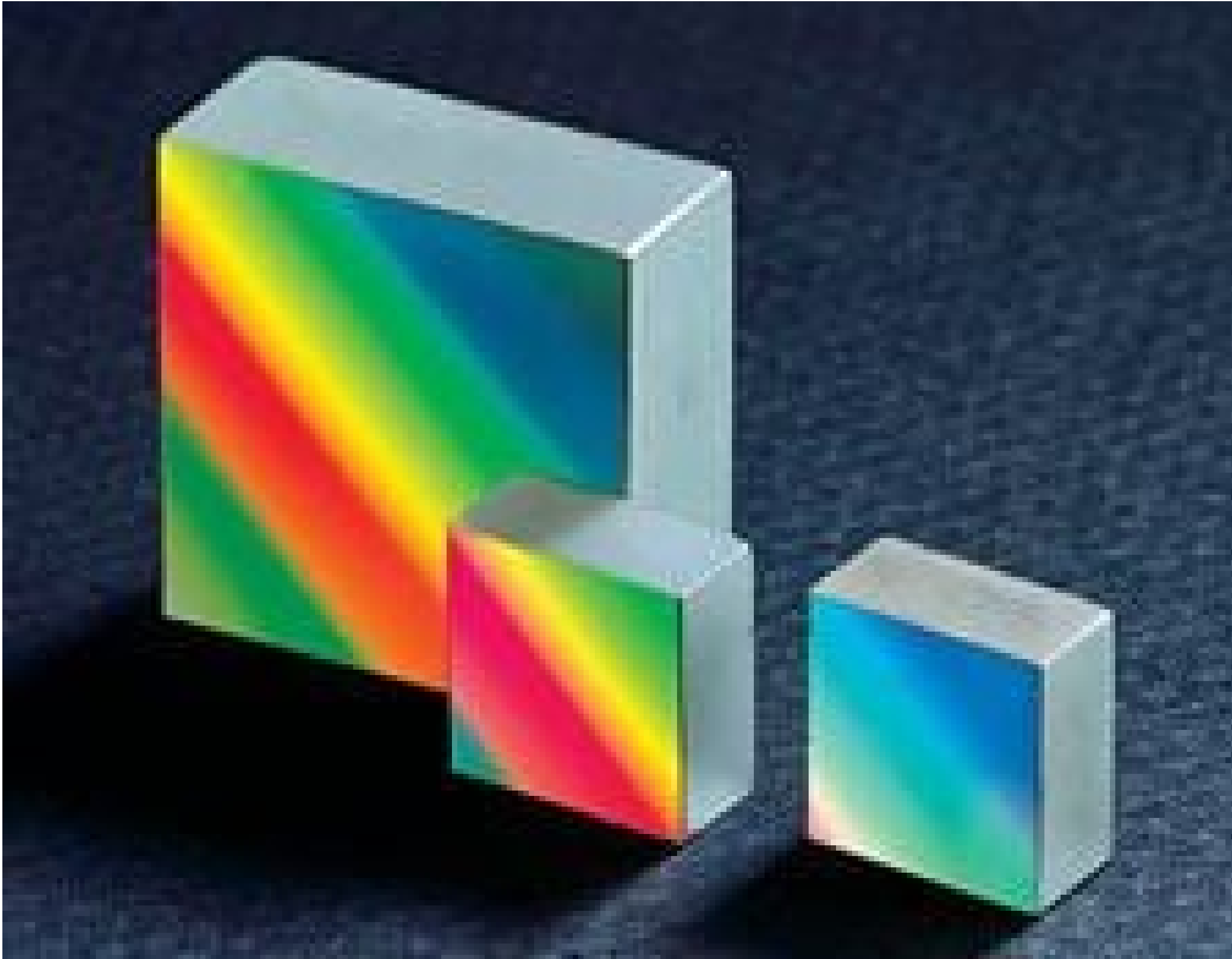


# 600 Grooves, 30mm Square, 1600nm NIR Ruled Grating



Stock **#48-427** 1 In Stock

-

1

+

£180<sup>.00</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-9        | £180.00 each                  |
| Qty 10-24      | £162.00 each                  |
| Need More?     | <a href="#">Request Quote</a> |

 Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Reflective Diffraction Grating

Type:

Physical & Mechanical Properties

30.0 x 30.0 ±0.5

Dimensions (mm):

90

Clear Aperture (%):

|                             |                                   |
|-----------------------------|-----------------------------------|
|                             | Construction:                     |
| Ruled Grating               |                                   |
|                             | Direction of Grooves:             |
| Parallel to Short Dimension |                                   |
|                             | Length (mm):                      |
| 30.00                       |                                   |
|                             | Thickness (mm):                   |
| 9.50 ±0.5                   |                                   |
|                             | Width (mm):                       |
| 30.00                       |                                   |
|                             | Alignment of Grooves to Edge (°): |
| ±0.5                        |                                   |

|                    |                                     |
|--------------------|-------------------------------------|
| Optical Properties |                                     |
|                    | Groove Density (grooves/mm):        |
| 600                |                                     |
|                    | Wavelength Range (nm):              |
| 700 - 3000         |                                     |
|                    | Blaze Wavelength (nm):              |
| 1600               |                                     |
|                    | Blaze Angle (°):                    |
| 28.68              |                                     |
|                    | Coating:                            |
| Bare Gold          |                                     |
|                    | Substrate: <input type="checkbox"/> |
| Float Glass        |                                     |

|                           |                             |
|---------------------------|-----------------------------|
| Regulatory Compliance     |                             |
|                           | RoHS 2015:                  |
| <a href="#">Compliant</a> |                             |
|                           | Certificate of Conformance: |
| <a href="#">View</a>      |                             |
|                           | Reach 247:                  |
| <a href="#">Compliant</a> |                             |

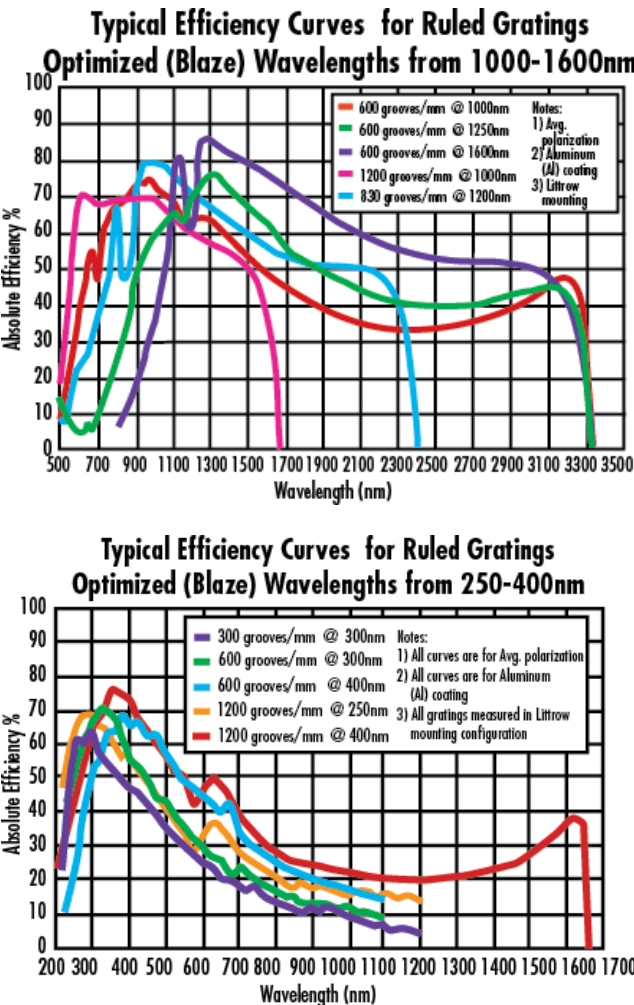
Product Details

• 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



## 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