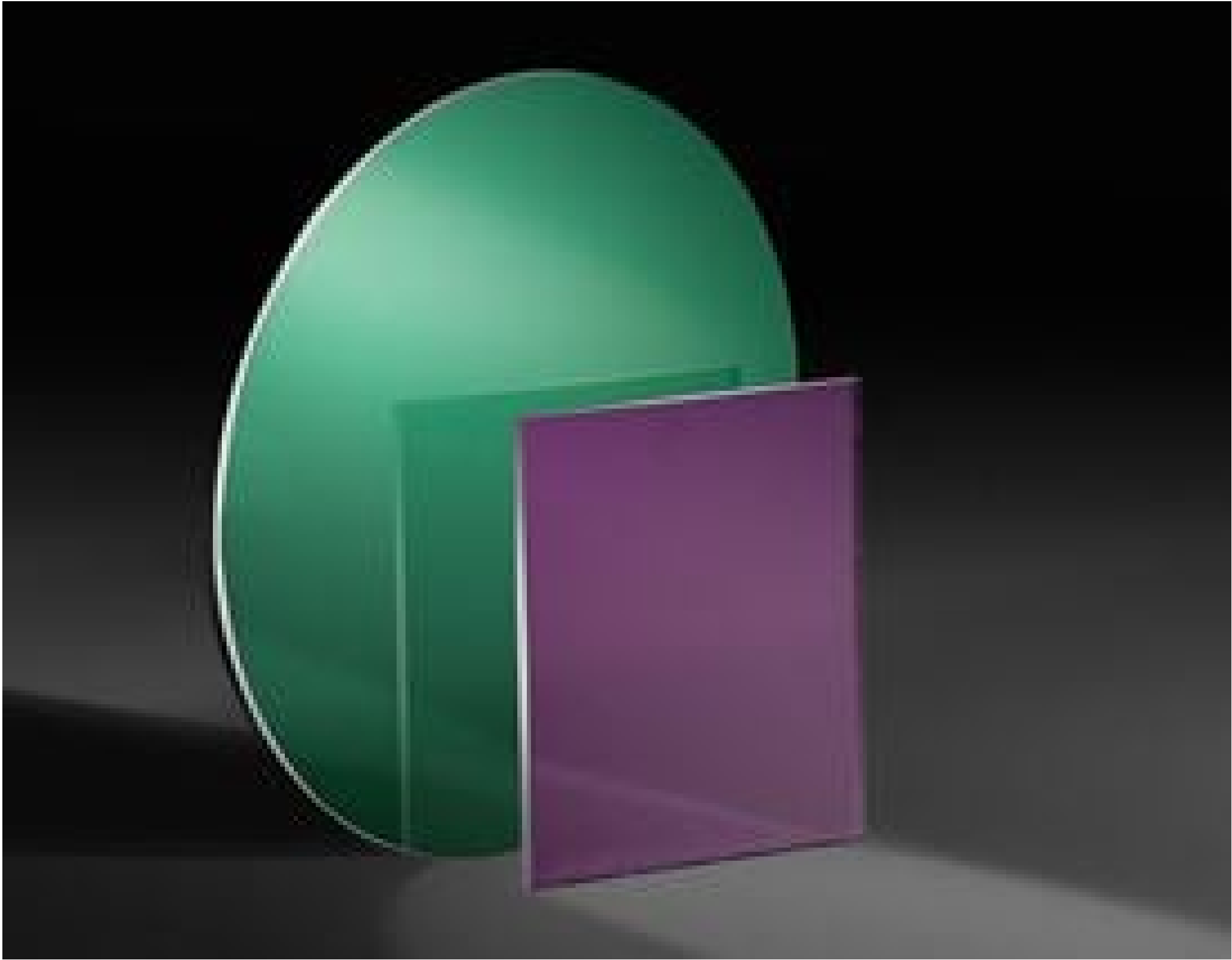


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# 50mm Dia., Protective Overcoat Wire Grid Polarizer



Protective Overcoat Wire Grid Polarizers



Stock **#12-650** **2 In Stock**

-

1

+

€1.315<sup>00</sup>

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| Volume Pricing |                               |
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| Qty 1-10       | €1.315,00 each                |
| Qty 11+        | €1.160,00 each                |
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⚠ Prices shown are exclusive of VAT/local taxes

Product Downloads

| General                                                                                                         |  |
|-----------------------------------------------------------------------------------------------------------------|--|
| Linear Polarizer                                                                                                |  |
| Type:                                                                                                           |  |
| Note:                                                                                                           |  |
| When the Reference Mark is orientated to the 3 or 9 o'clock position, the transmission axis runs left to right. |  |

| Physical & Mechanical Properties                       |                             |
|--------------------------------------------------------|-----------------------------|
| 48                                                     | Clear Aperture CA (mm):     |
| 50.00                                                  | Diameter (mm):              |
| 0.70 ±0.07                                             | Thickness (mm):             |
| ±0.2                                                   | Dimensional Tolerance (mm): |
| Wire Grid                                              | Construction:               |
| ±1.0                                                   | Alignment Tolerance (°):    |
| Optical Properties                                     |                             |
| 0 ±20                                                  | Angle of Incidence (°):     |
| BBAR (400-700nm)                                       | Coating:                    |
| 348:1 @ 450nm<br>885:1 @ 550nm<br>1229:1 @ 650nm       | Extinction Ratio:           |
| Corning Eagle XG                                       | Substrate: □                |
| 80-50                                                  | Surface Quality:            |
| 87                                                     | Transmission (%):           |
| ±2.5 @ 420 - 700nm                                     | Transmission Tolerance (%): |
| R <sub>avg</sub> <1% @ 400 - 700nm (Back of Substrate) | Coating Specification:      |
| 420 - 700                                              | Wavelength Range (nm):      |

| Material Properties |                    |
|---------------------|--------------------|
| 31.7 x 10-7/°C      | Thermal Expansion: |

| Environmental & Durability Factors |                             |
|------------------------------------|-----------------------------|
| -40 to +200                        | Operating Temperature (°C): |

| Regulatory Compliance |                             |
|-----------------------|-----------------------------|
| Compliant             | RoHS 2015:                  |
| Compliant             | Reach 224:                  |
| View                  | Certificate of Conformance: |

## Product Details

- Reflect S-Polarized Light, Transmit P-Polarized Light
- Protective Overcoat for Easy Handling and Cleaning
- Lighter, Thinner Design than Traditional Wire Grid Polarizers
- Overcoat Temperature Stability up to 200°C

Protective Overcoat Wire Grid Polarizers are used to reflect s-polarized light while transmitting p-polarized light in the visible spectrum. These polarizers consist of a thin aluminum wire grid attached to a glass substrate that is treated with a hard, protective coating. The overcoat protects the wire grid structure from scratches or other damage due to mechanical stress while enabling lighter, thinner designs compared to traditional Wire Grid Polarizers that use cover glass. The protective coating on these polarizers allows for them to be easily handled and cleaned, unlike bare wire grid polarizers where handling and cleaning is not recommended. Protective Overcoat Wire Grid Polarizers can be used in environments with high temperatures up to 200°C for over 1000 hours with minimal impact on performance.

**Note:** Reference marks indicate the axis of polarization.