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## TECHSPEC® 12.5 x 12.5mm Wire Grid Polarizing Film (WG-1)



TECHSPEC® Wire Grid Polarizing Film

Stock #70-546 CLEARANCE CONTACT US

1 €65<sup>00</sup>

**ADD TO CART**

Volume Pricing	
Qty 1-10	€65,00 each
Qty 11+	€52,00 each
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ⓘ Prices shown are exclusive of VAT/local taxes

### Product Downloads

#### General

Linear Polarizer **Type:**

#### Physical & Mechanical Properties

12.50 x 12.50 ±0.30 **Dimensions (mm):**

0.19 ±0.30 **Thickness (mm):**

**Construction:**

Wire Grid

**Optical Properties****Angle of Incidence (°):**

0 - 45

**Extinction Ratio:**

2000:1 Avg (Typical, 400-1200nm)

**Substrate:** 

Aluminium Wires on COP

**Transmission (%):**

Single: 44 Avg (Typical, 400-1200nm); Parallel: 36 Avg (Typical, 400-1200nm); Crossed: 0.02 Avg (Typical, 400-1200nm)

**Wavelength Range (nm):**

400 - 1200

**Axis Orientation:**

0° ±2°, marked by Notch

**Environmental & Durability Factors****Operating Temperature (°C):**

60 Max @ 90% RH 105 in dry conditions

**Regulatory Compliance****Certificate of Conformance:**[View](#)**Product Details**

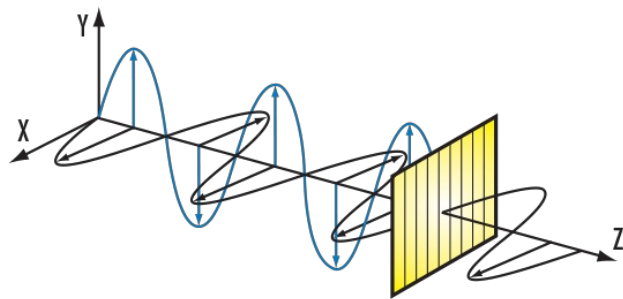
- High Contrast, Reflective Design
- Excellent Visible and NIR Performance
- Superior Durability Under High Temperatures and Humidity

TECHSPEC® Wire Grid Polarizing Film is ideal for applications requiring high contrast polarization, including pico projectors, polarizing beamsplitters, and heads up displays. Wire Grid Polarizing Film is designed to transmit the required polarization state while reflecting the unwanted state. Since these polarizers have spectrally flat performance at angle of incidences up to 45°, they can also be used as polarizing beamsplitters. Additionally, TECHSPEC® Wire Grid Polarizing Film feature excellent durability in high temperature or humid environments and provide excellent performance in the visible and NIR spectra from 400 – 1200nm.

**Note:** Due to the wire grid being exposed, special care should be taken when handling to prevent damage to the polarizer.

**Immediate Custom Quotes Available**

If you have a need for any round, square, or rectangular size of a TECHSPEC Wire Grid Polarizing Film in dimensions between 3mm and 600mm, please visit our [Polarizing Film Tool](#). We'll provide an immediate quote, and can deliver the part to your requested size in approximately 3 weeks. A full list of standard manufacturing tolerances and restrictions are listed. For fully customized polymer polarizers to your requirements, visit our [Customized Polymer Polarizers Capabilities](#) page.

**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**