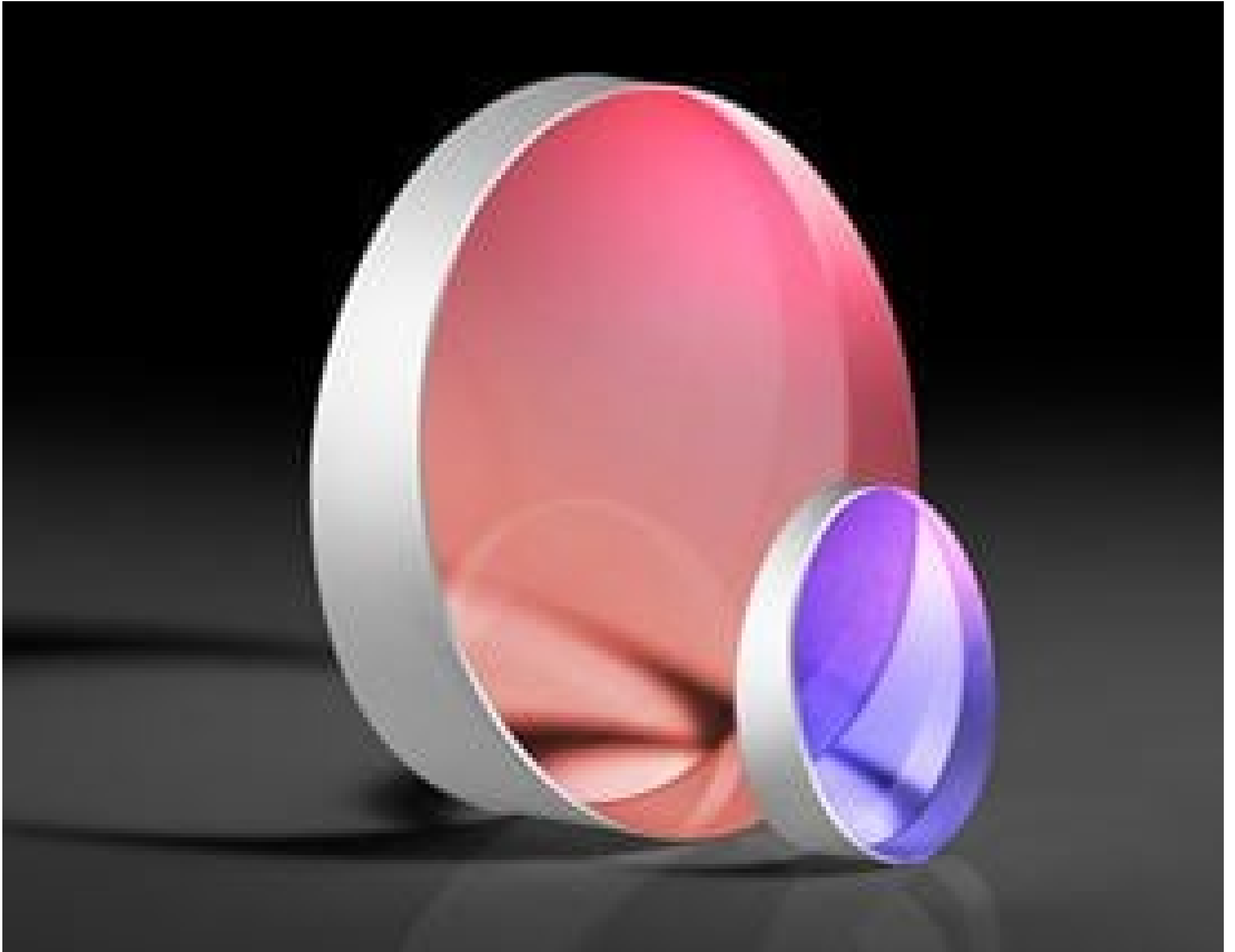


TECHSPEC® 12.5mm Dia. 1° Beam Dev. Fused Silica Wedge Prism 355nm Laser V-Coat



TECHSPEC Fused Silica Wedge Prisms

Stock **#39-074** CLEARANCE **5 In Stock**

⊖ 1 ⊕ £83²⁰

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Volume Pricing	
Qty 1+	£83.20 each
Need More?	Request Quote

! Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Note:
Specify this as S1 & S2 power and irregularity, not the overall power of the wedge

Physical & Mechanical Properties

12.50	Diameter (mm):
1.50	Thickness (mm):

Protective as needed **Bevel:**

2° 5'55" **Wedge Angle (arcmin):**

Optical Properties

30 **Angle Tolerance (arcsec):**

Laser V-Coat (355nm) **Coating:**

355 **Design Wavelength DWL (nm):**

[Fused Silica](#) (Corning 7980) **Substrate:**

20-10 **Surface Quality:**

Beam Deviation **Image Orientation:**

$R_{\text{rms}} < 0.25\%$ @ 355nm **Coating Specification:**

7.5 J/cm² @ 355nm, 20ns, 20Hz **Damage Threshold, By Design:**

0.50 **Power (fringes) @ 632.8nm:**

0.20 **Irregularity (fringes) @ 632.8nm:**

1.00 **Ray Deviation @ 355nm (°):**

1.74 **Power (diopters):**

2.1° **Wedge Angle (°):**

Material Properties

0.52 **Coefficient of Thermal Expansion CTE (10⁻⁶/°C):**

Regulatory Compliance

[Compliant](#) **RoHS 2015:**

[Compliant](#) **Reach 209:**

[View](#) **Certificate of Conformance:**

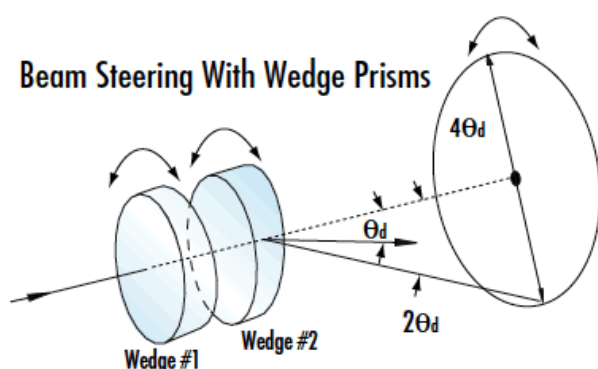
Product Details

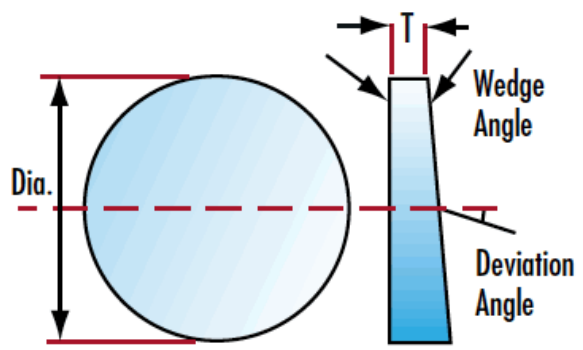
- Deviates Laser Beam Path from 0.5° - 5.0°
- Ideal for UV to NIR Beam Steering Applications from 250 to 1064nm
- Ideal for High Power Beam Steering Applications

TECHSPEC® Fused Silica Wedge Prisms are designed for a range of laser beam steering applications requiring UV-VIS or first through fourth Nd:YAG harmonic Anti-Reflection Coatings. They are optimized to ensure the highest level of system performance using tightly controlled specifications including $\lambda/10$ surface flatness, 20-10 surface quality, and a wedge tolerance of 15 or 30 arcseconds. The Nd:YAG coated versions feature high transmittance and guaranteed laser damage thresholds specific to the design wavelength. TECHSPEC® Fused Silica Wedge Prisms utilize a wedge design to deviate laser beam path from 0.5° – 5°. By creating a risley prism pair using two wedge prisms with the same ray deviation, custom beam steering up to two times the wedge deviation is possible. A low coefficient of thermal expansion ensures accurate beam steering in high power laser applications.

Note: Power Diopter is defined as 1cm deviation at a distance of 1m from the prism. TECHSPEC® Wedge Prisms are also available in [N-BK7 versions](#).

Technical Information





Custom

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).
