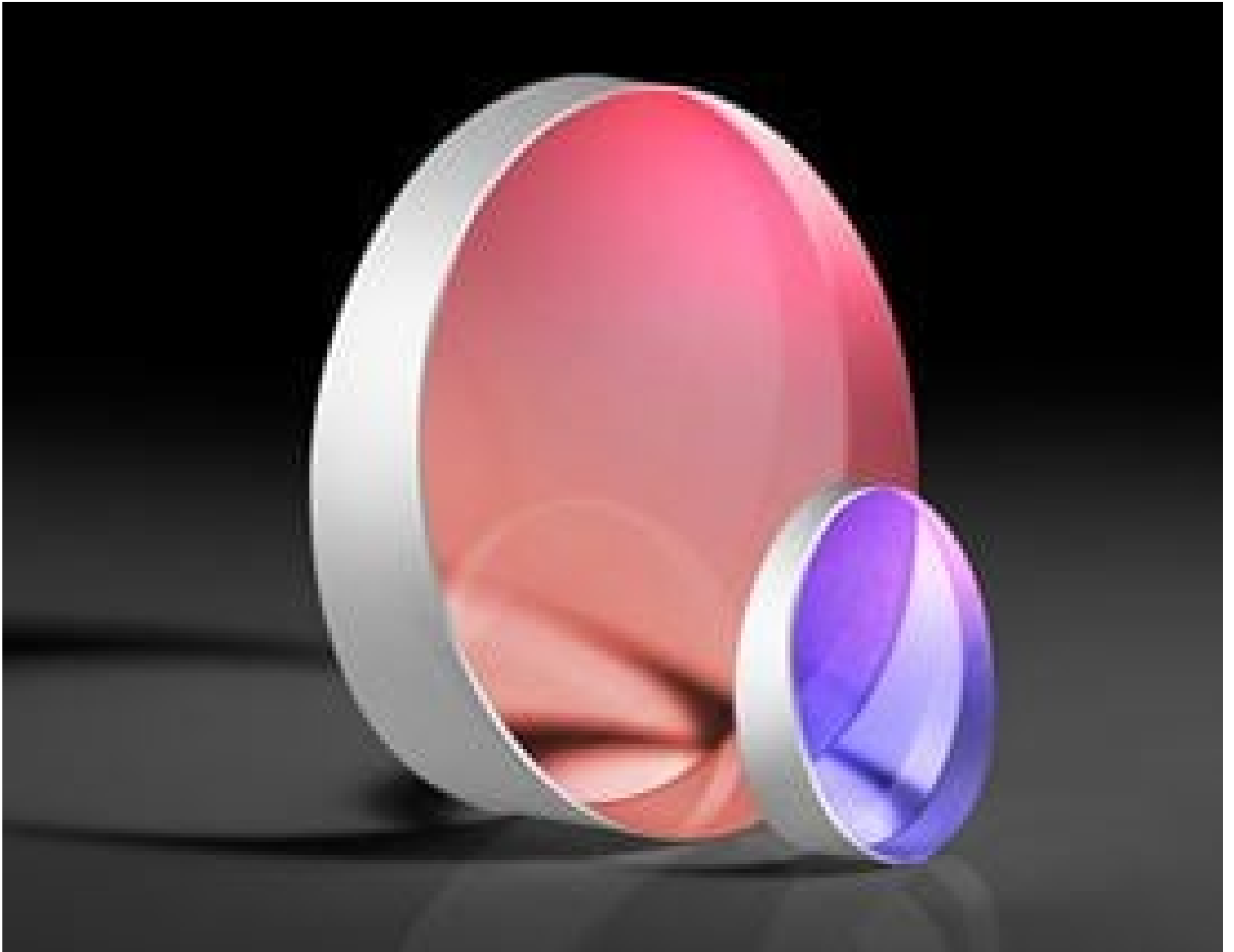


TECHSPEC® 25mm Dia. 0.5° Beam Dev. Fused Silica Wedge Prism 1064nm Laser V-Coat



TECHSPEC Fused Silica Wedge Prisms

Stock **#39-130** **8 In Stock**

⊖ 1 ⊕ **\$\$249⁰⁰**

ADD TO CART

Volume Pricing	
Qty 1-5	\$\$249.20 each
Qty 6-25	\$\$198.80 each
Qty 26-49	\$\$186.20 each
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Product Downloads

SPECIFICATIONS

General

Note:

Specify this is S1 & S2 power and irregularity, not the overall power of the wedge

Physical & Mechanical Properties

Physical & Mechanical Properties

25.00 Diameter (mm):

3.00 Thickness (mm):

Protective as needed Bevel:

1° 3' Wedge Angle (arcmin):

Optical Properties

15 Angle Tolerance (arcsec):

Laser V-Coat (1064nm) Coating:

1064 Design Wavelength DWL (nm):

Fused Silica (Corning 7980) Substrate:

20-10 Surface Quality:

Beam Deviation Image Orientation:

$R_{\text{abs}} < 0.25\% @ 1064\text{nm}$ Coating Specification:

15 J/cm² @ 1064nm, 20ns, 20Hz Damage Threshold, By Design:

0.50 Power (fringes) @ 632.8nm:

0.20 Irregularity (fringes) @ 632.8nm:

0.50 Ray Deviation @ 355nm (°):

0.87 Power (diopters):

1.05° 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:

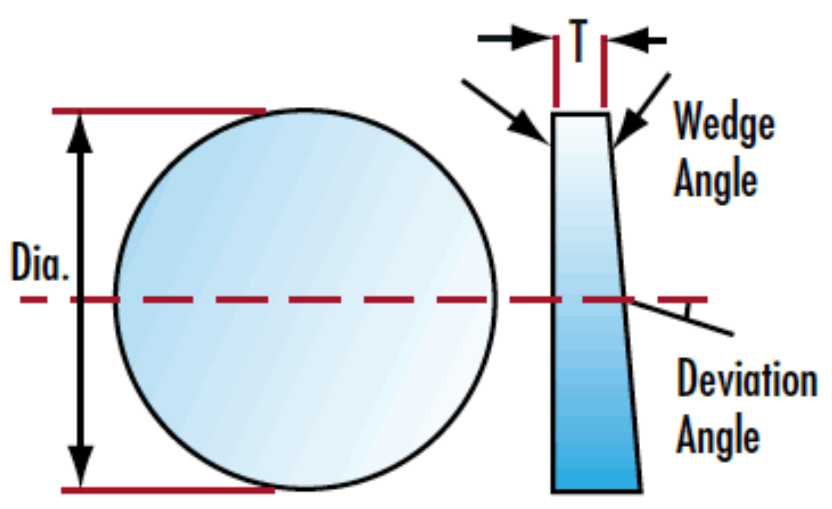
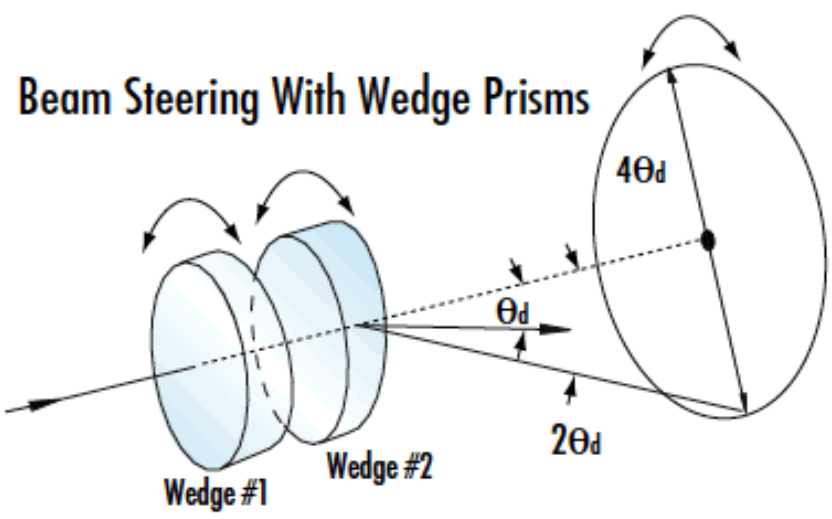
PRODUCT DETAILS

- 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-MS 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](#).