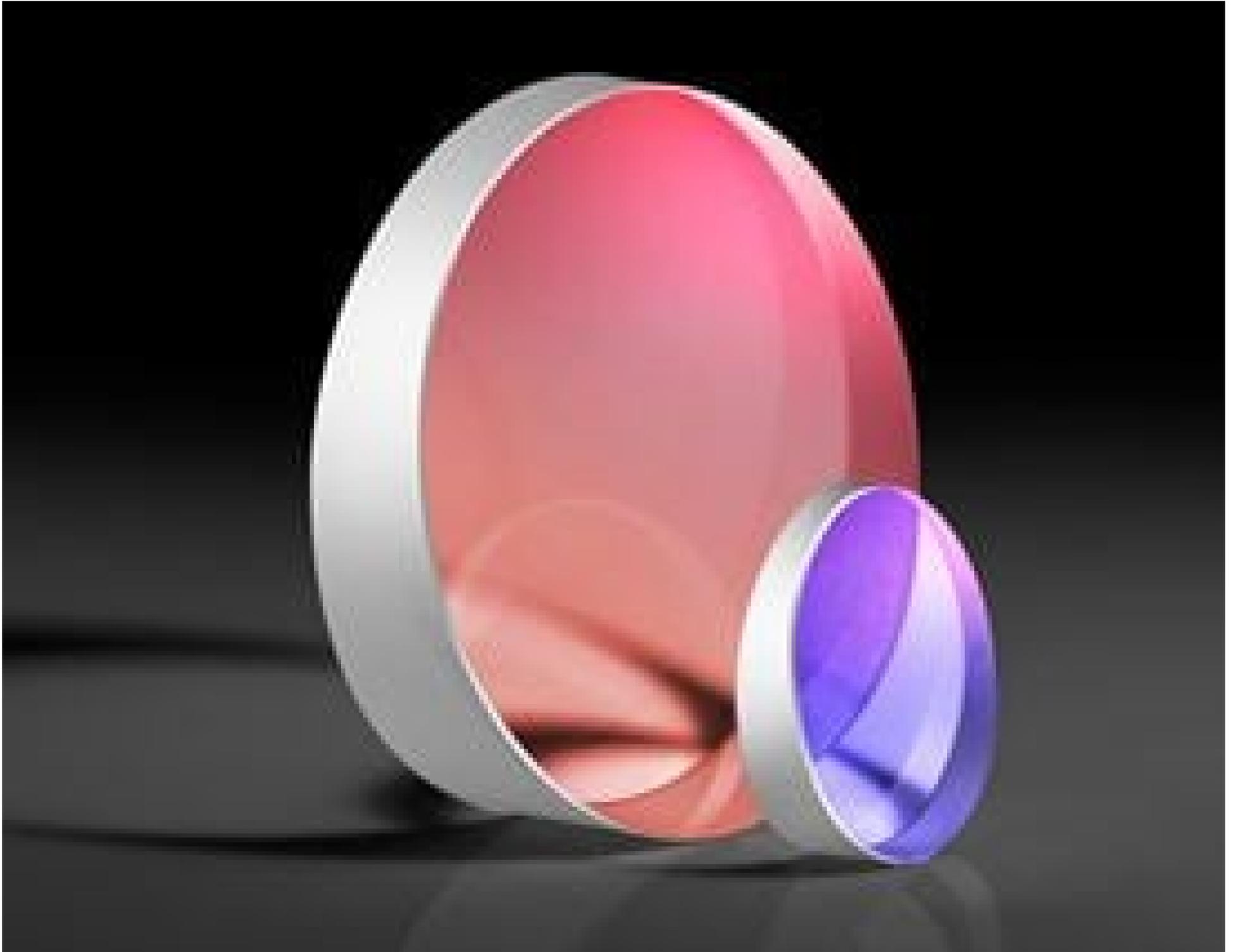


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TECHSPEC® 25mm Dia. 1° Beam Dev. Fused Silica Wedge Prism 355nm Laser V-Coat



TECHSPEC Fused Silica Wedge Prisms

Stock **#39-081** CLEARANCE 6 In Stock

₹8,870

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Qty 1+	₹8,870 each
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General

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

Physical & Mechanical Properties

Diameter (mm):

25.00

Thickness (mm):

3.00

Bevel:

Protective as needed

Wedge Angle (arcmin):
2° 5'56"

Optical Properties

Angle Tolerance (arcsec):
15

Coating:
Laser V-Coat (355nm)

Design Wavelength DWL (nm):
355

Substrate:
Fused Silica (Corning 7980)

Surface Quality:
20-10

Image Orientation:
Beam Deviation

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

Damage Threshold, By Design:
 $7.5 \text{ J/cm}^2 @ 355\text{nm}, 20\text{ns}, 20\text{Hz}$

Power (fringes) @ 632.8nm:
0.50

Irregularity (fringes) @ 632.8nm:
0.20

Ray Deviation @ 355nm (°):
1.00

Power (diopters):
1.74

Wedge Angle (°):
2.1°

Material Properties

Coefficient of Thermal Expansion CTE ($10^{-6}/^{\circ}\text{C}$):
0.52

Regulatory Compliance

RoHS 2015:
Compliant

Reach 209:
Compliant

Certificate of Conformance:
[View](#)

Country of Origin:
Singapore

Imported By:
Edmund Optics India Private Limited

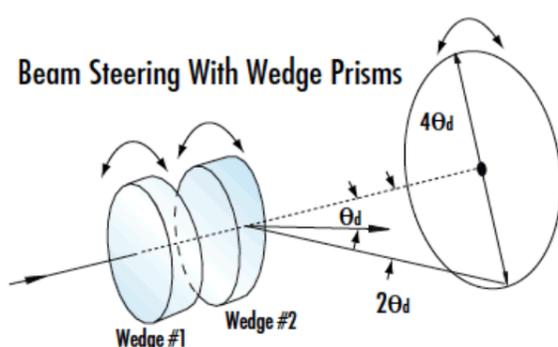
Product Details

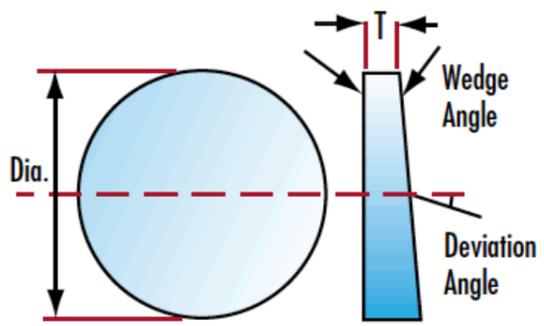
- Deviates Laser Beam Path from 0.5° - 5.0°
- Ideal for UV to NIR Beam Steering Applications from 250 to 1064nm
- Ideal for High Power Beam Steering Applications

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](#).
