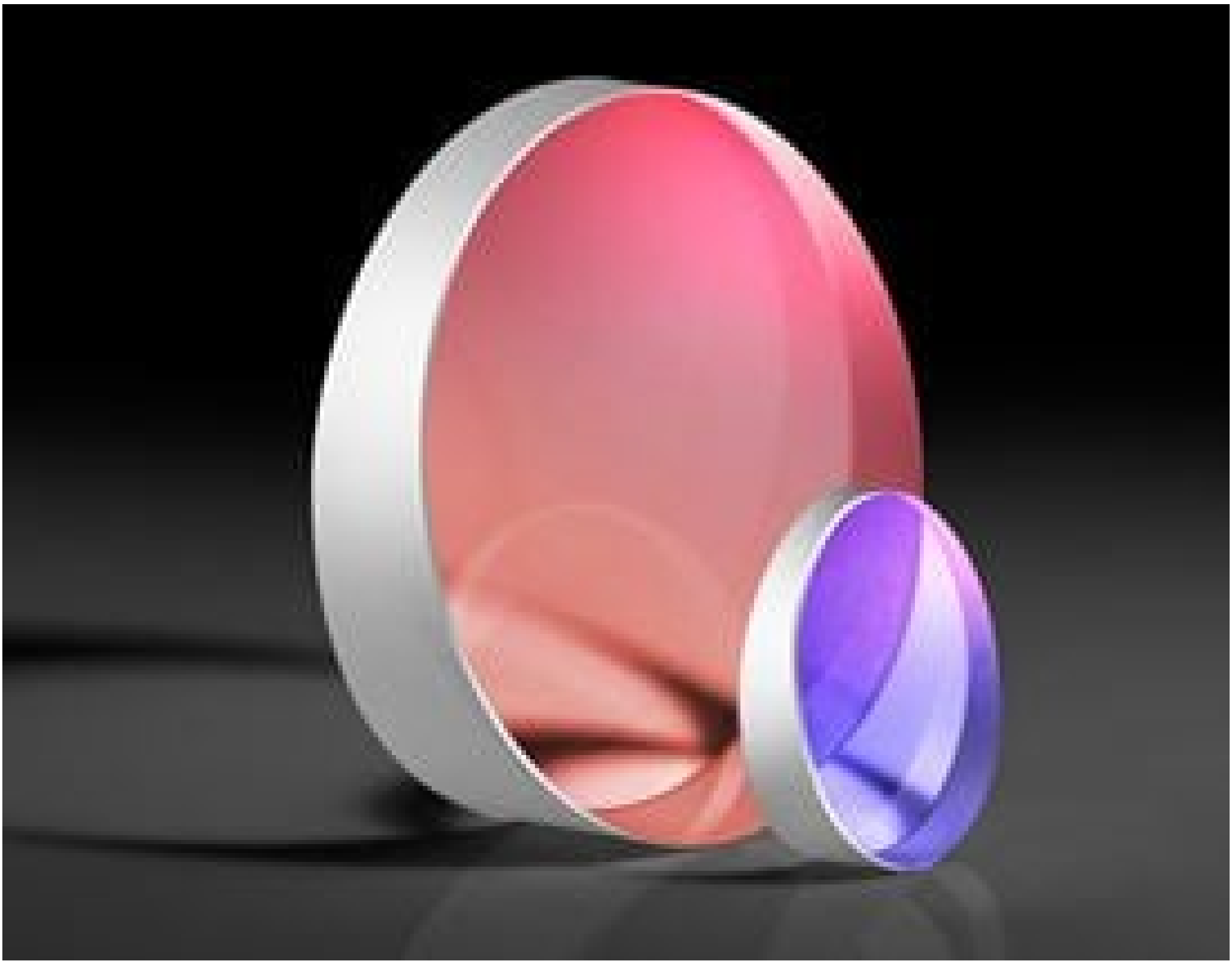
TECHSPEC 25mm Dia. 4° Beam Dev. Fused Silica Wedge Prism 1064nm Laser V-Coat



TECHSPEC Fused Silica Wedge Prisms

Stock **#39-135** **5 In Stock**

- 1 + **€178**.00

ADD TO CART

Volume Pricing	
Qty 1-5	**€178,00** each
Qty 6-25	**€142,00** each
Qty 26-49	**€133,00** each
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Prices shown are exclusive of VAT/local taxes

Product Downloads

SPECIFICATIONS

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):
8° 17'39"

Optical Properties

Angle Tolerance (arcsec):
15

Coating:
Laser V-Coat (1064nm)

Design Wavelength DWL (nm):
1064

Substrate:
Fused Silica (Corning 7980)

Surface Quality:
20-10

Image Orientation:
Beam Deviation

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

Damage Threshold, By Design:
15 J/cm^2 @ 1064nm, 20ns, 20Hz

Power (fringes) @ 632.8nm:
0.50

Irregularity (fringes) @ 632.8nm:
0.20

Ray Deviation @ 355nm (°):
4.00

Power (diopters):
6.99

Wedge Angle (°):
8.29°

Material Properties

Coefficient of Thermal Expansion CTE (10^{-6}/°C):
0.52

Regulatory Compliance

RoHS 2015:
Compliant

Reach 209:
Compliant

Certificate of Conformance:
View

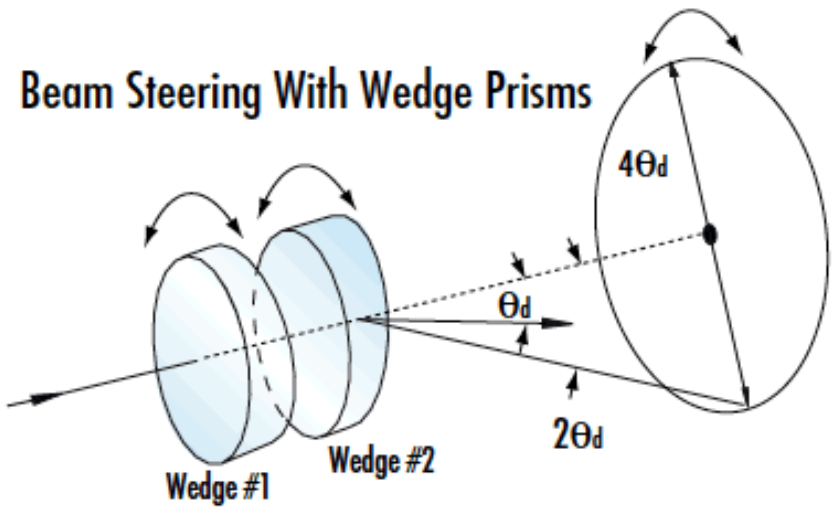
PRODUCT DETAILS

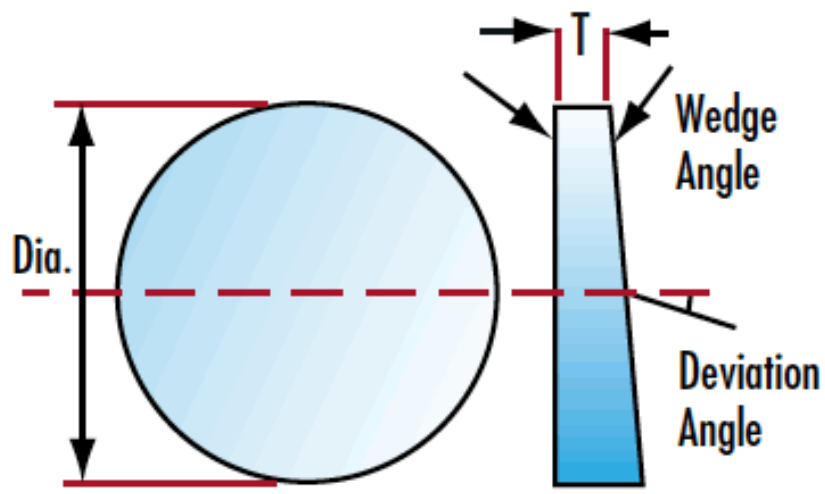
- Deviates Laser Beam Path from 0.5° - 5.0°
- Ideal for UV to NIR Beam Steering Applications from 250 to 1064nm
- Ideal for High Power Beam Steering Applications

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 λ/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.**