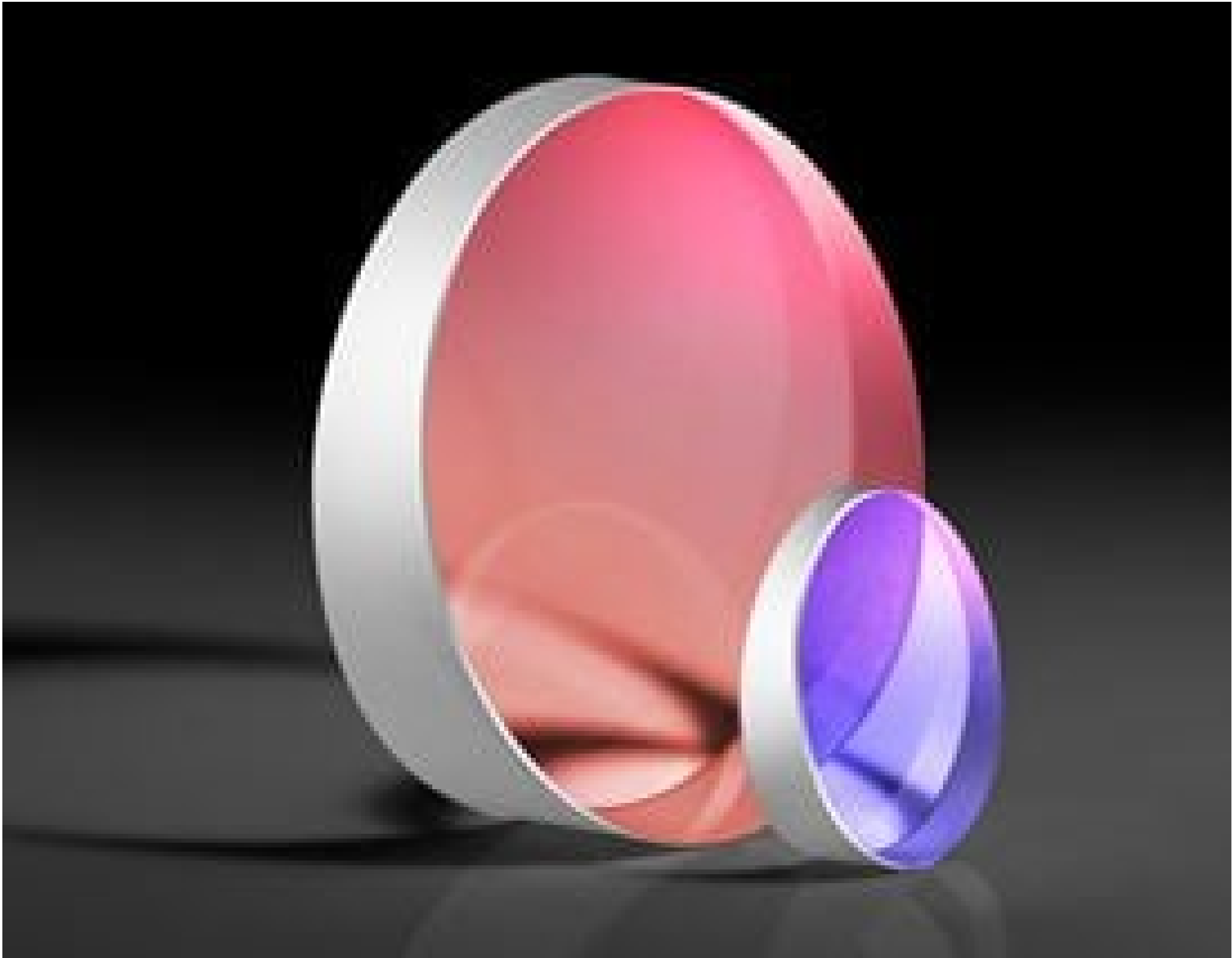


TECHSPEC[®] 12.5mm Dia. 5° Beam Dev. Fused Silica Wedge Prism Uncoated



TECHSPEC Fused Silica Wedge Prisms

Stock **#35-848** 20+ In Stock

-

1

+

€121^{.54}

ADD TO CART

Volume Pricing	
Qty 1-5	€121,54 each
Qty 6-25	€97,34 each
Qty 26-49	€91,16 each
Need More?	Request Quote

! Prices shown are exclusive of VAT/local taxes

Product Downloads

SPECIFICATIONS

General

Wedge Prism

Type:

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

Physical & Mechanical Properties

	Diameter (mm):
12.50 +0.00/-0.10	
	Thickness (mm):
1.50	
	Bevel:
Protective as needed	
	Wedge Angle (arcmin):
10° 17'38"	

Optical Properties

	Angle Tolerance (arcsec):
30	
	Coating:
Uncoated	
	Design Wavelength DWL (nm):
355	
	Substrate: ☐
Fused Silica (Corning 7980)	
	Surface Quality:
20-10	
	Image Orientation:
Beam Deviation	
	Wavelength Range (nm):
200 - 2200	
	Power (fringes) @ 632.8nm:
0.50	
	Irregularity (fringes) @ 632.8nm:
0.20	
	Ray Deviation @ 355nm (°):
5.00	
	Power (diopters):
8.75	
	Wedge Angle (°):
10.29°	

Material Properties

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

Regulatory Compliance

	RoHS 2015:
Compliant	
	Reach 219:
Compliant	
	Certificate of Conformance:
View	

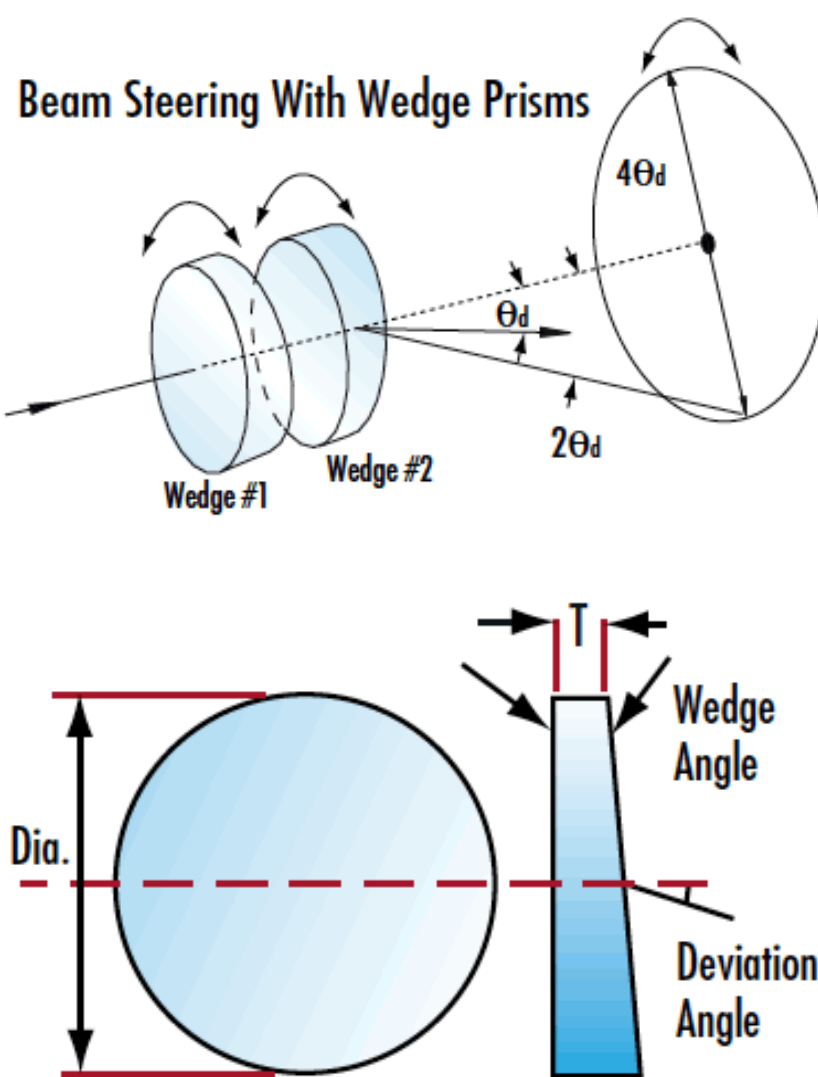
PRODUCT DETAILS

- 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 *N*/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](#).