

TECHSPEC<sup>®</sup> 12.5mm Dia. 5° Beam Dev. Fused Silica Wedge Prism Uncoated



TECHSPEC Fused Silica Wedge Prisms

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

-

1

+

A\$206<sup>40</sup>

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | A\$206.40 each                |
| Qty 6-25       | A\$164.80 each                |
| Qty 26-49      | A\$154.40 each                |
| Need More?     | <a href="#">Request Quote</a> |

Product Downloads

General

Wedge Prism

Type:

Note:  
Specifcy 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    |                       |
| 1.50                 | Thickness (mm):       |
|                      |                       |
| Protective as needed | Bevel:                |
|                      |                       |
| 10° 17'38"           | Wedge Angle (arcmin): |

Optical Properties

|                                             |                                     |
|---------------------------------------------|-------------------------------------|
| 30                                          | Angle Tolerance (arcsec):           |
|                                             |                                     |
| Uncoated                                    | Coating:                            |
|                                             |                                     |
| 355                                         | Design Wavelength DWL (nm):         |
|                                             |                                     |
| <a href="#">Fused Silica</a> (Corning 7980) | Substrate: <input type="checkbox"/> |
|                                             |                                     |
| 20-10                                       | Surface Quality:                    |
|                                             |                                     |
| Beam Deviation                              | Image Orientation:                  |
|                                             |                                     |
| 200 - 2200                                  | Wavelength Range (nm):              |
|                                             |                                     |
| 0.50                                        | Power (fringes) @ 632.8nm:          |
|                                             |                                     |
| 0.20                                        | Irregularity (fringes) @ 632.8nm:   |
|                                             |                                     |
| 5.00                                        | Ray Deviation @ 355nm (°):          |
|                                             |                                     |
| 8.75                                        | Power (diopters):                   |
|                                             |                                     |
| 10.29°                                      | Wedge Angle (°):                    |

Material Properties

|      |                                                              |
|------|--------------------------------------------------------------|
| 0.52 | Coefficient of Thermal Expansion CTE (10 <sup>-6</sup> /°C): |
|------|--------------------------------------------------------------|

Regulatory Compliance

|                           |                             |
|---------------------------|-----------------------------|
| <a href="#">Compliant</a> | RoHS 2015:                  |
|                           |                             |
| <a href="#">Compliant</a> | Reach 219:                  |
|                           |                             |
| <a href="#">View</a>      | Certificate of Conformance: |

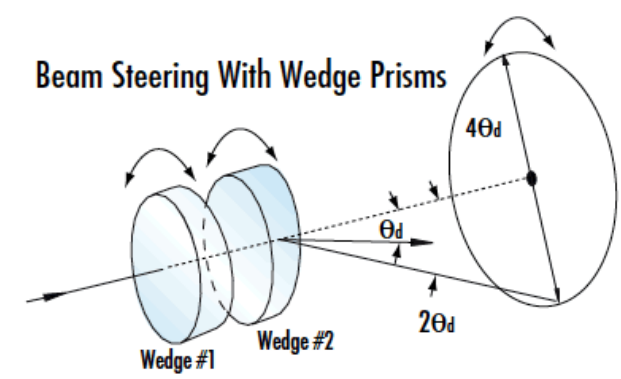
## Product Details

- 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](#).

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