

TECHSPEC<sup>®</sup> 75mm Dia. 320 - 450nm Broadband  $\lambda/10$  Mirror



Stock **#24-045** 2 In Stock

-

1

+

C\$1,008<sup>00</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | C\$1,008.00 each              |
| Qty 6-25       | C\$805.00 each                |
| Qty 26-49      | C\$756.00 each                |
| Need More?     | <a href="#">Request Quote</a> |

Product Downloads

General

Type:  
Flat Mirror

Physical & Mechanical Properties

Diameter (mm):  
75.00 +0.00/-0.20

|                                                                                                                                                                                          |                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| 7.50 ±0.20                                                                                                                                                                               | Thickness (mm):                |
| Commercial Polish                                                                                                                                                                        | Back Surface:                  |
| 90                                                                                                                                                                                       | Clear Aperture (%):            |
| Ground, 0.5mm max bevel                                                                                                                                                                  | Edges:                         |
| <3                                                                                                                                                                                       | Parallelism (arcmin):          |
| Optical Properties                                                                                                                                                                       |                                |
| Dielectric                                                                                                                                                                               | Coating Type:                  |
| Dielectric Mirror (320-450nm)                                                                                                                                                            | Coating:                       |
| λ/10                                                                                                                                                                                     | Surface Flatness (P-V):        |
| 320 - 450                                                                                                                                                                                | Wavelength Range (nm):         |
| Fused Silica (Corning 7980)                                                                                                                                                              | Substrate: ☐                   |
| 0-45                                                                                                                                                                                     | Angle of Incidence (°):        |
| R <sub>avg</sub> >98% @ 340 - 488nm (0°, All Polarizations)<br>R <sub>avg</sub> >98% @ 320 - 450nm (45°, All Polarizations)<br>R <sub>avg</sub> >99% @ 320 - 450nm (45°, S-Polarization) | Coating Specification:         |
| 20-10                                                                                                                                                                                    | Surface Quality:               |
| 0.5 J/cm² @ 355nm, 20ns, 20Hz                                                                                                                                                            | Damage Threshold, By Design: ☐ |
| Regulatory Compliance                                                                                                                                                                    |                                |
| View                                                                                                                                                                                     | Certificate of Conformance:    |

## Product Details

- Enhanced Reflectivity and LIDT over Metallic Coatings
- Average Reflectivity >99% Over Broad UV, Visible, and NIR Wavelengths
- Designed for all Polarization States from 0 – 45° AOI

TECHSPEC® Broadband Dielectric λ/10 Mirrors are ideal for beam steering or reflection applications utilizing multiple laser sources. These mirrors feature greater than 99% reflection, significantly better than metal-coated mirrors, and increase system performance by minimizing energy loss. The highly durable fused silica substrate offers a low thermal expansion coefficient and a high abrasion resistance. TECHSPEC® Broadband Dielectric λ/10 Mirrors are designed for applications from the UV to the near-infrared spectra.

## 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](#).

## Compatible Mounts