

TECHSPEC<sup>®</sup> 600-1000nm, 50mm Diameter Ultrafast-Enhanced Silver Coated, λ/10 Mirror



Stock **#21-991** 8 In Stock

-

1

+

₹16,349

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | ₹16,349 each                  |
| Qty 6-25       | ₹13,079 each                  |
| Qty 26-49      | ₹12,261 each                  |
| Need More?     | <a href="#">Request Quote</a> |

Product Downloads

SPECIFICATIONS

General

Type:  
Flat Mirror

Physical & Mechanical Properties

|                      |                             |
|----------------------|-----------------------------|
| 50.00 +0.00/-0.20    | Diameter (mm):              |
| Commercial Polish    | Back Surface:               |
|                      |                             |
| +0.00/-0.20          | Dimensional Tolerance (mm): |
| Protective as needed | Bevel:                      |
|                      |                             |
| 90                   | Clear Aperture (%):         |
| Ground               | Edges:                      |
|                      |                             |
| 30                   | Parallelism (arcsec):       |
|                      |                             |
| 5.00 ±0.20           | Thickness (mm):             |

Optical Properties

|                                                                                                                                  |                                                       |
|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| N10                                                                                                                              | Surface Flatness (P-V):                               |
| Fused Silica (Corning 7980)                                                                                                      | Substrate: <input type="checkbox"/>                   |
|                                                                                                                                  |                                                       |
| 20-10                                                                                                                            | Surface Quality:                                      |
|                                                                                                                                  |                                                       |
| R <sub>avg</sub> >99% @ 600 - 1000nm, 0°<br>R <sub>s</sub> >99% @ 540 - 1000nm, 45°<br>R <sub>p</sub> >98.5% @ ~730 - 870nm, 45° | Coating Specification:                                |
|                                                                                                                                  |                                                       |
| Ultrafast-Enhanced Silver (600-1000nm)                                                                                           | Coating:                                              |
|                                                                                                                                  |                                                       |
| Metal                                                                                                                            | Coating Type:                                         |
|                                                                                                                                  |                                                       |
| 0.60 - 1.05                                                                                                                      | Wavelength Range (μm):                                |
|                                                                                                                                  |                                                       |
| 600 - 1000                                                                                                                       | Wavelength Range (nm):                                |
|                                                                                                                                  |                                                       |
| 0 ±20fs <sup>2</sup> @ 600 - 1000nm                                                                                              | GDD Specification:                                    |
|                                                                                                                                  |                                                       |
| 0.3 J/cm <sup>2</sup> @ 800nm, 48fs, 1 pulse (typical)<br>0.16 J/cm <sup>2</sup> @ 800nm, 48fs, 100Hz, 1000 pulses (typical)     | Damage Threshold, Reference: <input type="checkbox"/> |

Regulatory Compliance

|      |                             |
|------|-----------------------------|
| View | Certificate of Conformance: |
|------|-----------------------------|

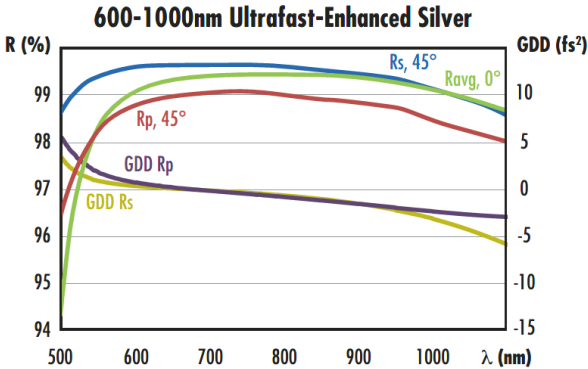
PRODUCT DETAILS

- Precision Fused Silica Substrate
- Variety of Sizes and Coating Options Available
- Low Coefficient of Thermal Expansion

TECHSPEC® N10 First Surface Mirrors are ideal for demanding beam steering and reflection applications in the visible and IR spectra. With a precision fused silica substrate, the mirrors feature a low coefficient of thermal expansion while being highly durable and resistant to abrasion. These precision mirrors are available in a variety of sizes and coating options, including enhanced aluminum, protected gold, and protected silver. These coatings allow for improved handling of the component, increased durability of the metal coating, and protection from oxidation with little impact to the performance on the metal coating. TECHSPEC® N10 First Surface Mirrors can be utilized in various optics and photonics applications, including biotech instruments such as DNAsequencers and polymerase chain reaction (PCR) testing platforms.

**Note:** Surface flatness is measured before coating.

TECHNICAL INFORMATION



600-1000nm Ultrafast-Enhanced Silver

## 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

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