See all 5 Products in Family

# TECHSPEC® 12.5mm Dia. 400 - 750nm Broadband λ/4 Mirror

Broadband Dielectric λ/4 Mirrors

Stock **#70-667** **7 In Stock**

- 1 + **S$97.30**

**ADD TO CART**

| Volume Pricing | |
|---|---|
| Qty 1-5 | **S$97.30** each |
| Qty 6-25 | **S$77.70** each |
| Qty 26-49 | **S$72.80** each |
| Need More? | Request Quote |

Product Downloads

## General

**Type:**

Flat Mirror

## Physical & Mechanical Properties

**Diameter (mm):**

12.50 +0.00/-0.25

**Thickness (mm):**

2.00 ±0.25

**Back Surface:**
Commercial Polish

**Clear Aperture (%):**
90

**Clear Aperture CA (mm):**
11.25

**Edges:**
Ground

**Parallelism (arcmin):**
5

## Optical Properties

**Coating Type:**
Dielectric

**Coating:**
Dielectric Mirror (400-750nm)

**Surface Flatness (P-V):**
λ/4 (typical)

**Wavelength Range (nm):**
400 - 750

**Substrate:**
BOROFLOAT®

**Angle of Incidence (°):**
0-45

**Coating Specification:**
$R_{avg}$ >98% @ 400 - 750nm (0-45°, All Polarizations)
$R_{avg}$ >99% @ 400 - 750nm (0-45°, S-Polarizations)

**Surface Quality:**
60-40

**Damage Threshold, By Design:**
0.5 J/cm$^2$ @ 532nm, 20ns, 20Hz

## Regulatory Compliance

**Certificate of Conformance:**
View

# Product Details

- Enhanced Reflectivity and LDT over Metallic Coatings
- Average Reflectivity >99% from 400 – 750nm
- Designed for all Polarization States at 0 – 45° AOI
- λ/10 Versions Available

TECHSPEC® Broadband Dielectric λ/4 Mirrors feature a high laser damage threshold of 0.5 J/cm$^2$ @ 532nm, 20ns pulse, at 20Hz as well as a >99% reflection from 400 – 750nm across all polarization states. Constructed from highly durable BOROFLOAT® substrates, these mirrors feature outstanding thermal and high chemical durability making them ideal for high temperature and harsh environment applications. TECHSPEC® Broadband Dielectric λ/4 Mirrors are available in a variety of diameters from 12.5 - 50mm. A low-cost alternative to our precision polished **TECHSPEC Broadband Dielectric λ/10 Mirrors**, these mirrors are ideal for spectroscopy, microscopy, and general laboratory use such as beam steering or reflection applications utilizing multiple laser sources.

**Note:** Surface Flatness is measured pre-coating and deviations may appear after the coating has been applied. For applications where surface flatness is critical it is recommended it is recommended to use the **TECHSPEC® Broadband Dielectric λ/10 Mirrors**.

;