

TECHSPEC® 10mm Dia. 515nm 45°, Yb:YAG Laser Line Mirror



Yb:YAG ZERODUR Laser Line Mirrors

Stock #26-884 **10 In Stock**

⊖ 1 ⊕ €189⁰⁰

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| Qty 1-5 | €189,00 each |
| Qty 6-25 | €165,00 each |
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ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Laser Mirror **Type:**

Physical & Mechanical Properties

2.00 +/-0.2 **Thickness (mm):**

10.00 +0.00/-0.20 **Diameter (mm):**

90 Clear Aperture (%):

30 Parallelism (arcsec):

Optical Properties

ZERODUR® Substrate: □

20-10 Surface Quality:

45 Angle of Incidence (°):

Laser Mirror (515nm) Coating:

515 Design Wavelength DWL (nm):

99.8 Reflection at DWL (%):

509 - 520 Wavelength Range (nm):

λ/10 Surface Flatness (P-V):

Coating Specification:

$R_{\text{rms}} > 99.80\%$ @ 515nm @ 45° AOI $R_{\text{avg}} > 99.5\%$ @ 509 - 520nm @ 45° AOI

Dielectric Coating Type:

15 J/cm² @ 515nm, 20ns, 20Hz Damage Threshold, By Design: □

Regulatory Compliance

View Certificate of Conformance:

Product Details

- ZERODUR® Substrates Provide Near Zero Thermal Expansion
- >99.8% Reflectivity at Yb:YAG Harmonic Frequencies
- High Laser Damage Threshold Specifications

Yb:YAG ZERODUR Laser Line Mirrors combine the extremely low coefficient of thermal expansion of ZERODUR® substrates with the highly reflective TECHSPEC® Yb:YAG mirror coating. Featuring a coefficient of thermal expansion (CTE) of $\pm 0.10 \times 10^{-6}/^{\circ}\text{C}$ these mirrors are great for applications where the optics will be exposed to fluctuating temperatures. The Yb:YAG coating offers a high laser damage threshold compatible with both pulsed and continuous wave lasers. Yb:YAG ZERODUR Laser Line Mirrors are designed with precision polished substrates with λ/10 flatness and 20-10 surface quality. These mirrors are ideal for laser applications that include laser ablation, welding, drilling, cutting, and sintering.