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TECHSPEC® 25mm Dia. 355nm 45°, Nd:YAG Laser Line Mirror



Nd:YAG ZERODUR Laser Line Mirrors

Stock **#26-417** **2 In Stock**

⊖ 1 ⊕ C\$322.00

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General

Laser Mirror **Type:**

Physical & Mechanical Properties

4.00 +/-0.2 **Thickness (mm):**

25.00 +0.00/-0.20 **Diameter (mm):**

Clear Aperture (%):

>90

Parallelism (arcsec):

30

Optical Properties

Substrate:

ZERODUR®

Surface Quality:

20-10

Angle of Incidence (°):

45

Coating:

Laser Mirror (355nm)

Design Wavelength DWL (nm):

355

Reflection at DWL (%):

99.8

Wavelength Range (nm):

351 - 358

Surface Flatness (P-V):

$\lambda/10$

Coating Specification:

$R_{\text{abs}} > 99.8\%$ @ 355nm @ 45° AOI $R_{\text{avg}} > 99.5\%$ @ 351 - 358nm @ 45° AOI

Coating Type:

Dielectric

Damage Threshold, By Design:

6 J/cm² @ 355nm, 20ns, 20Hz

Regulatory Compliance

Certificate of Conformance:

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Product Details

- ZERODUR® Substrates Provide Near Zero Thermal Expansion
- >99.5% Reflectivity at Nd:YAG Harmonic Frequencies
- High Laser Damage Threshold Specifications

Nd:YAG ZERODUR Laser Line Mirrors combine the extremely low coefficient of thermal expansion of ZERODUR® substrates with the highly reflective TECHSPEC® Nd:YAG mirror coating. Featuring a coefficient of thermal expansion (CTE) of $\pm 0.10 \times 10^{-6}/^{\circ}\text{C}$ these mirrors are ideal for applications where the optics will be exposed to fluctuating temperatures. The Nd:YAG coating offers a high laser damage threshold compatible with both pulsed and continuous wave lasers. Nd:YAG ZERODUR Laser Line Mirrors are designed with precision polished substrates with $\lambda/10$ flatness and 20-10 surface quality. These mirror are an excellent fit for laboratories and integration into larger powerful laser systems