

TECHSPEC[®] 20mm Dia. 1064nm 45°, Nd:YAG Laser Line Mirror



Nd:YAG ZERODUR Laser Line Mirrors

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1

+

₹15,570

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SPECIFICATIONS

General

Laser Mirror

Type:

Physical & Mechanical Properties

Diameter (mm):

20.00 +0.00/-0.20	
>90	Clear Aperture (%):
30	Parallelism (arcsec):
3.00 +/-0.2	Thickness (mm):

Optical Properties

1064	Design Wavelength DWL (nm):
1046 - 1074	Wavelength Range (nm):
ZERODUR®	Substrate:
45	Angle of Incidence (°):
99.8	Reflection at DWL (%):
Laser Mirror (1064nm)	Coating:
Coating Specification: R _{abs} >99.8% @ 1064nm @ 45° AOI, R _{avg} >99.5% @ 1046 - 1074nm @ 45° AOI	
Dielectric	Coating Type:
λ/10	Surface Flatness (P-V):
20-10	Surface Quality:
Damage Threshold, By Design: 20 J/cm² @ 1064nm, 20ns, 20Hz	

Regulatory Compliance

View	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 ±0.10 x 10-6/°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 λ/10 flatness and 20-10 surface quality. These mirror are an excellent fit for laboratories and integration into larger powerful laser systems