

TECHSPEC<sup>®</sup> 15mm Dia. 355nm 45°, Nd:YAG Laser Line Mirror



Nd:YAG ZERODUR Laser Line Mirrors

Stock **#26-415** **3 In Stock**

-

1

+

£162<sup>40</sup>

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| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | £162.40 each                  |
| Qty 6-25       | £144.80 each                  |
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 Prices shown are exclusive of VAT/local taxes

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General

Laser Mirror

Type:

Physical & Mechanical Properties

3.00 +/-0.2

Thickness (mm):

15.00 +0.00/-0.20

Diameter (mm):

|                                                                                                                     |                             |
|---------------------------------------------------------------------------------------------------------------------|-----------------------------|
| >90                                                                                                                 | Clear Aperture (%):         |
| 30                                                                                                                  | Parallelism (arcsec):       |
| Optical Properties                                                                                                  |                             |
| ZERODUR®                                                                                                            | Substrate: <div></div>      |
| 20-10                                                                                                               | Surface Quality:            |
| 45                                                                                                                  | Angle of Incidence (°):     |
| Laser Mirror (355nm)                                                                                                | Coating:                    |
| 355                                                                                                                 | Design Wavelength DWL (nm): |
| 99.8                                                                                                                | Reflection at DWL (%):      |
| 351 - 358                                                                                                           | Wavelength Range (nm):      |
| λ/10                                                                                                                | Surface Flatness (P-V):     |
| Coating Specification:<br>R <sub>abs</sub> >99.8% @ 355nm @ 45° AOI R <sub>avg</sub> >99.5% @ 351 - 358nm @ 45° AOI |                             |
| Dielectric                                                                                                          | Coating Type:               |
| Damage Threshold, By Design: <div></div><br>6 J/cm² @ 355nm, 20ns, 20Hz                                             |                             |
| Regulatory Compliance                                                                                               |                             |
| View                                                                                                                | Certificate of Conformance: |

## 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