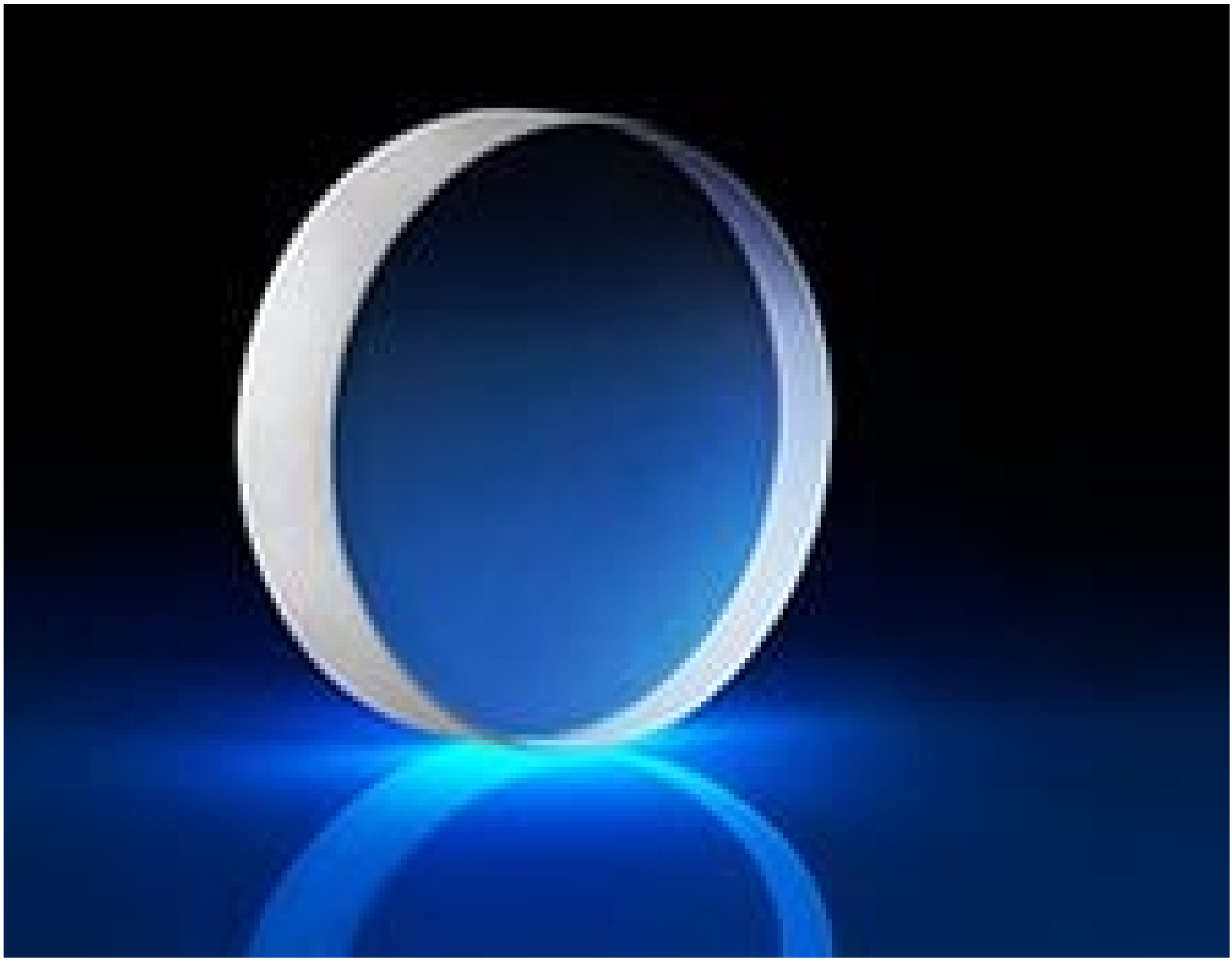
See all 10 Products in Family

TECHSPEC® 532nm, 45° 25.4mm Dia. Nd:YAG IBS Low Loss Laser Line Mirror



Stock **#89-451** CONTACT US

- 1 + **£179**.20

ADD TO CART

Volume Pricing	
Qty 1-5	**£179.20** each
Qty 6-25	**£156.80** each
Qty 26+	**£152.32** each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Type:
Laser Mirror

Physical & Mechanical Properties

Parallelism (arcmin):
<1

Clear Aperture (%):
>90

Back Surface:
Commercial Polish

Diameter (mm):
25.40 +0.0/-0.1

Thickness (mm):
5.00 ±0.1

Optical Properties

Surface Quality:
20-10

Reflection at DWL (%):
99.97

Reflectivity (Rs%):
99.97

Reflectivity (Rp%):
99.93

Reflectivity (Rs%, Rp%):
>99.9

Coating Specification:
R_s >99.97% @ 532nm
R_p >99.93% @ 532nm

Wavelength Range (nm):
515 - 532

Surface Flatness (P-V):
λ/8

Coating Type:
Dielectric

Coating:
Laser Mirror (515-532nm)

Design Wavelength DWL (nm):
532

Angle of Incidence (°):
45

Substrate:
Fused Silica (Corning 7980)

Damage Threshold, By Design:
>12 J/cm^2 @ 1064nm, 10ns

Environmental & Durability Factors

Durability:
MIL-C-675A

Regulatory Compliance

RoHS 2015:
Compliant

Certificate of Conformance:
View

Reach 247:
Compliant

Need different specs or modifications?

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

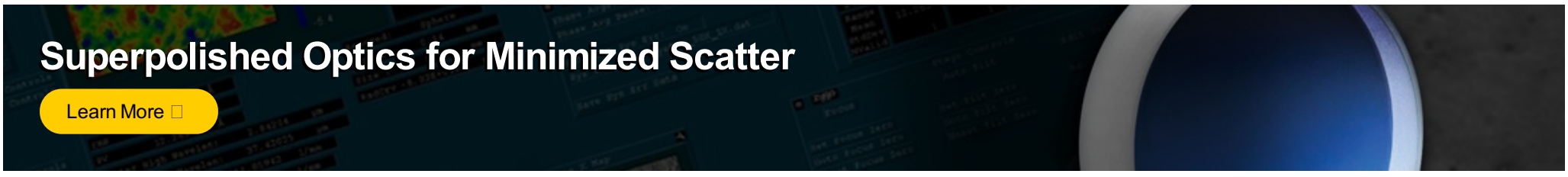
Learn more about our custom manufacturing capabilities or submit an inquiry here.

Product Details

- Up to 99.98% Reflectivity
- Certified High Laser Damage Threshold at DWL up to 15 J/cm^2 @ 1064nm
- Superpolished Substrates Available with Parts per Million Level Scattering Performance
- Additional Sizes Coming Soon

TECHSPEC® High Performance Nd:YAG Laser Line Mirrors are coated using ion beam sputtering (IBS) technology. These laser mirrors are designed for extremely demanding laser applications that require the highest reflection at their design wavelength. The Ion Beam Sputtered coating causes these mirrors to have lower surface roughness than competing coating technologies, resulting in less scatter. TECHSPEC® High Performance Nd:YAG Laser Line Mirrors feature high environmental stability due to dense coating films. Environmental factors such as temperature and humididty cause negligible performance degradation.

Please contact us if your application requires an IBS Laser Line Mirror with custom dimensions or a custom IBS mirror coating.



Compatible Mounts

;