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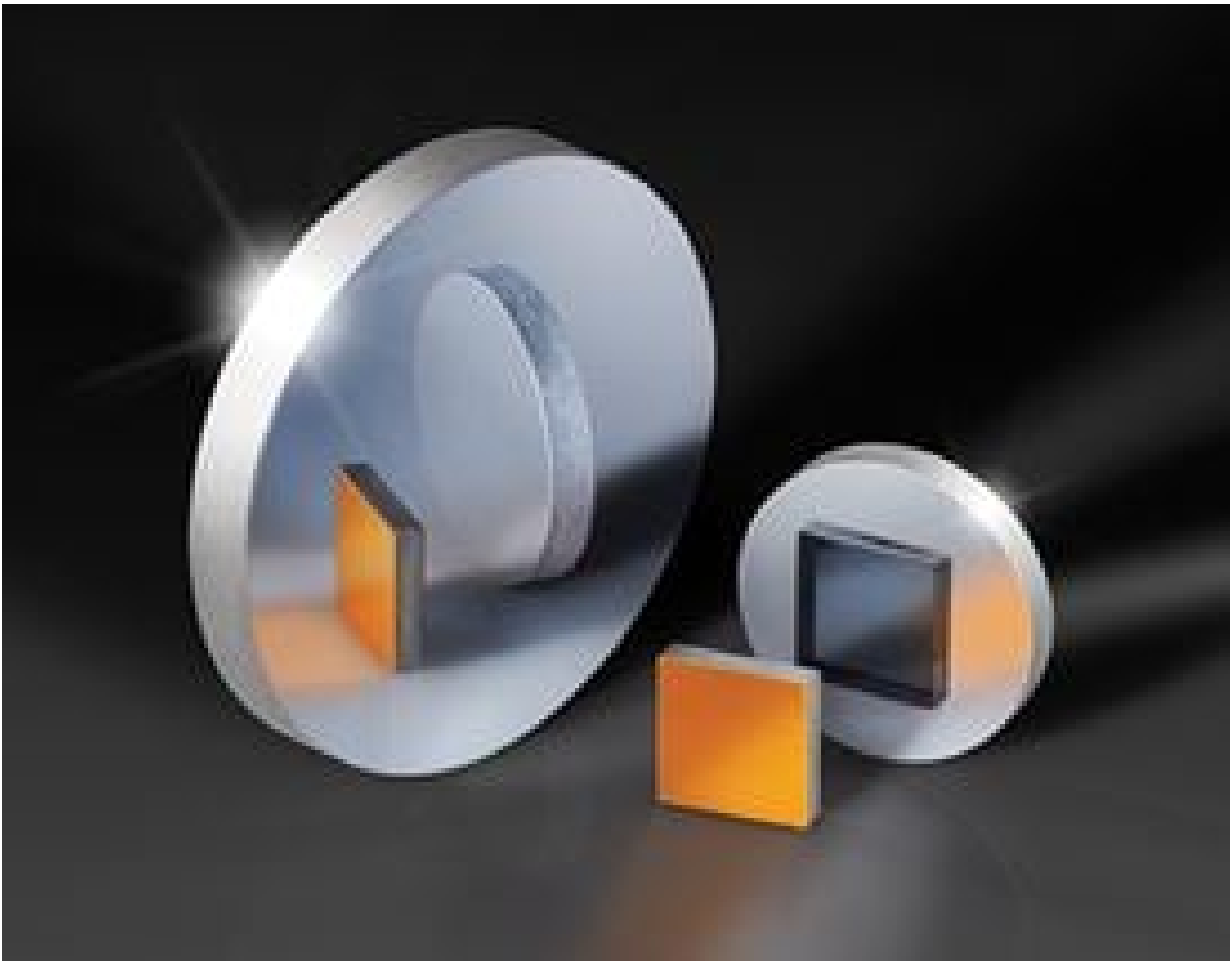
TECHSPEC® 50mm Dia Protected Silver, λ/20 Mirror



Stock **#34-398** **10 In Stock**

- 1 + **€363**.00

ADD TO CART

Volume Pricing	
Qty 1-5	**€363,00** each
Qty 6-25	**€290,00** each
Qty 26-49	**€272,00** each
Need More?	Request Quote

Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Type:
Flat Mirror

Physical & Mechanical Properties

Diameter (mm):
50.00 +0.0/-0.10

Thickness (mm):
5.00 ±0.20

Back Surface:
Commercial Polish

Clear Aperture (%):
90.00

Edges:
Ground, protective bevel as needed

Parallelism (arcsec):
30.00

Optical Properties

Coating Type:
Metal

Coating:
Protected Silver (450-10000nm)

Surface Flatness (P-V):
λ/20 (flatness pre-coating)

Wavelength Range (nm):
450 - 10000

Substrate:
Fused Silica (Corning 7980)

Coating Specification:
R_{avg} >98% @ 450 - 2000nm
R_{avg} >98% @ 2000 - 10,000nm

Surface Quality:
20-10

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.

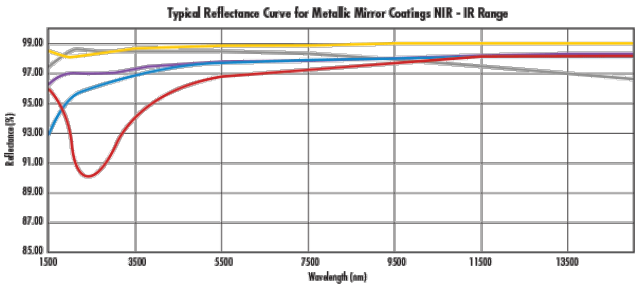
Product Details

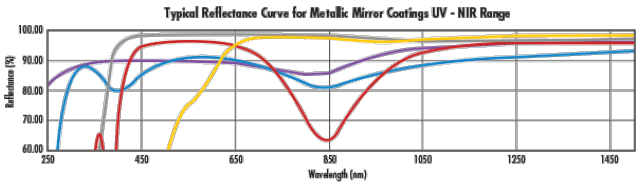
- Precision Fused Silica Substrate
- 20-10 Surface Quality
- Low Coefficient of Thermal Expansion

TECHSPEC® λ/20 First Surface Mirrors are polished to industry leading surface accuracy and quality specifications to minimize reflected wavefront error. These mirrors feature a precision fused silica substrate with a low coefficient of thermal expansion. Multiple coating options are available, allowing these mirrors to be integrated into applications spanning the visible through infrared spectra. TECHSPEC® λ/20 First Surface Mirrors are ideal for beam steering and reflection applications and are available in a variety of size, thickness, and coating options.

Note: Surface flatness is measured before coating.

Technical Information





Protected Aluminum		Enhanced Aluminum		UV Enhanced Aluminum		Protected Gold		Protected Silver	
Range (µm)	% Reflection	Range (µm)	% Reflection	Range (µm)	% Reflection	Range (µm)	% Reflection	Range (µm)	% Reflection
0.4 - 0.7	85	0.45 - 0.65	95	0.25 - 0.45	89	0.7 - 2.0	96	0.45 - 2.0	98
0.4 - 2.0	90	–	–	0.25 - 0.70	85	2.0 - 10.0	96	2.0 - 10.0	98

Coating Curves

Compatible Mounts

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