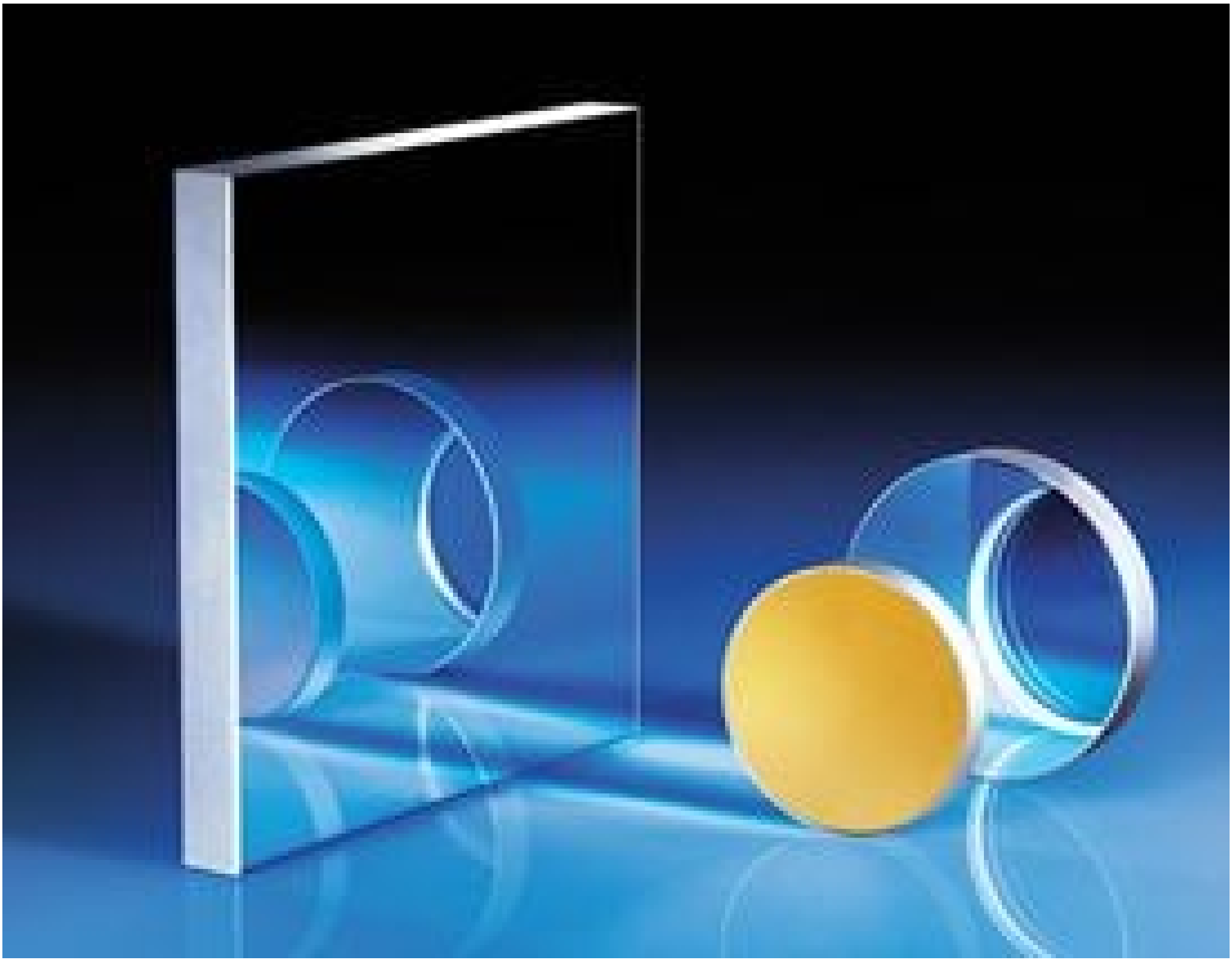
See all 173 Products in Family

TECHSPEC® 20mm Dia Protected Gold, 4-6λ Mirror



Stock **#43-732** **20+ In Stock**

- 1 + **C$71.40**

ADD TO CART

Volume Pricing	
Qty 1-5	**C$71.40** each
Qty 6-25	**C$51.80** each
Qty 26-99	**C$49.00** each
Need More?	Request Quote

Product Downloads

General

Type:

Flat Mirror

Physical & Mechanical Properties

Diameter (mm):

20.00 ±0.25

Thickness (mm):

3.00 nominal

Clear Aperture CA (mm):
19.00

Dimensional Tolerance (mm):
±0.25

Edges:
Ground, 0.5mm Maximum Edge Chip

Optical Properties

Coating Type:
Metal

Coating:
Protected Gold (700-10000nm)

Surface Flatness (P-V):
4 - 6λ

Wavelength Range (nm):
700 - 10000

Substrate:
Float Glass

Coating Specification:
R_{avg} >96% @ 700 - 2000nm
R_{avg} >96% @ 2000 - 10,000nm

Surface Quality:
60-40

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

Regulatory Compliance

RoHS 2015:
Compliant

Certificate of Conformance:
View

Reach 247:
Compliant

Product Details

- Wide Variety of Shapes and Sizes Available
- Enhanced Aluminum, Protected Gold, and Protected Silver Coatings for high reflectivity from 450-10000nm
- Contact Us for Custom Sizes

TECHSPEC® First Surface Mirrors feature a high reflectivity coating deposited on the front surface of the glass substrate. The mirrors are available in enhanced aluminum, protected gold, and protected silver coatings for high reflectivity from 450-10000nm. The coated surface should be oriented to reflect incident light. TECHSPEC First Surface Mirrors are offered in circular, square, and rectangular dimensions. First surface mirrors are ideal for applications requiring the mirror to be mounted at 45° in order to produce a 90° bend in the light path. These first surface mirrors easily mount into a range of optical mounts to facilitate application integration.

Note: A range of mounts specifically compatible with individual TECHSPEC® First Surface Mirrors can be found on product web pages.

TECHSPEC® First Surface Mirrors feature a high-reflectivity coating deposited on the front surface of a float-glass substrate to minimize ghosting and enable accurate beam redirection.

They are available with enhanced aluminum, protected silver, and protected gold coatings for applications requiring high reflectivity from 450 – 10000nm.

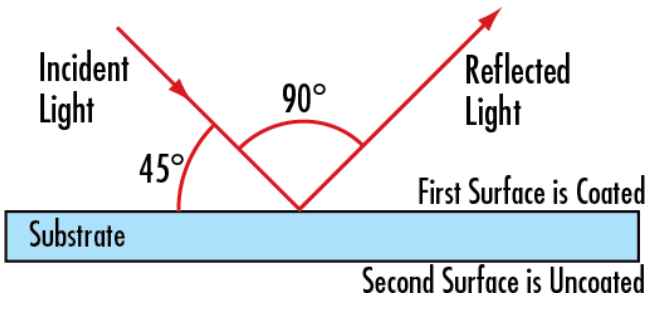
These mirrors are ideal for optical path folding, beam steering, and imaging systems where the mirror is mounted at 45° to produce a 90° bend in the light path.

Offered in circular, square, and rectangular formats, they are well-suited for OEM integration, prototype builds, and general laboratory alignment setups. With typical surface flatness of 4 – 6λ (waves) and 60-40 surface quality, they provide a cost-effective solution for applications that require reliable reflected beam performance without the added expense of precision polished substrates.

First-surface mirrors are commonly used in life sciences, metrology, semiconductor, and general photonics systems where the quality of reflected light is important.

For proper use, the coated surface should be oriented toward the incident light to avoid transmission through the substrate and preserve optical performance.

Technical Information



Compatible Mounts

;