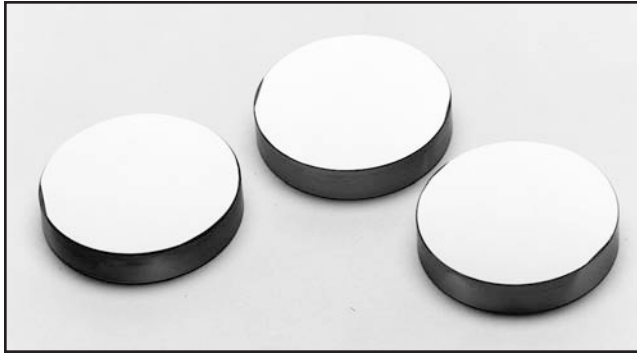


Metal Coated Mirrors

Protected Silver Flat Mirrors



Protected Silver Flat Mirrors

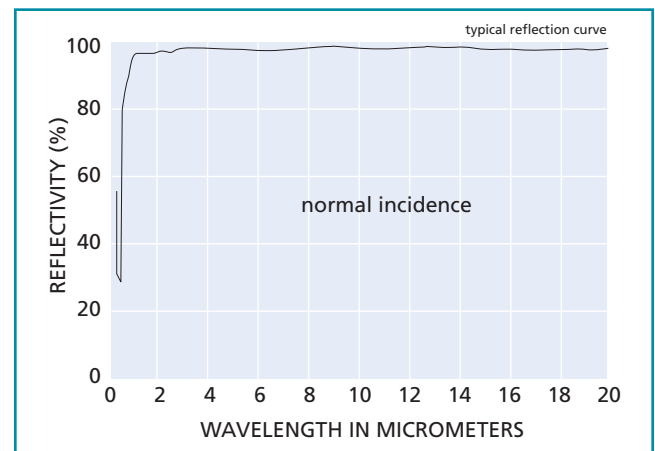
Protected silver coatings combine high reflectance throughout the visible and near-infrared spectral region. The CVI Laser Optics silver mirror coating is cleanable and has excellent durability. A proprietary overcoat and edge seal prevent the silver from oxidizing and deteriorating.

CVI Laser Optics suggests using the drag and drop method with acetone for the cleaning of these mirrors.

- Minimal pulse distortion for ultrafast Ti:sapphire lasers
- Protected silver has higher reflectance than aluminum throughout the visible and near-infrared spectral region
- A proprietary overcoat provides increased durability
- Contact CVI Laser Optics for OEM capabilities

SPECIFICATIONS: Protected Silver Flat Mirrors

Dimensions	
Square	$\phi \pm 0.25$ mm
Round	$\phi + 0 / - 0.25$ mm
Thickness	$t \pm 0.25$ mm
Parallelism	3 arc minutes
Clear Aperture	80% of diameter (85% for PS-PM series)
Coating	Protected silver
Average Reflectance	$\geq 95\%$ (400 nm to 20 μm)
Substrate Material	N-BK7



Protected silver coating

From our Shelves to Your Lab – Standard Products for Fast Delivery

Protected Silver Flat Mirrors

Shape	ϕ (mm)	ϕ (mm)	t (mm)	Substrate Material	Clear Aperture (mm)	Surface Quality (scratch-dig)	Surface Flatness	PART NUMBER
Round	12.7	—	6.4	N-BK7	10.8	40-20	$\lambda/10$	PS-PM-0525-C
Round	25.0	—	6.0	N-BK7	21.3	40-20	$\lambda/10$	PS-PM-2506M-C
Round	25.4	—	6.4	N-BK7	21.6	40-20	$\lambda/10$	PS-PM-1025-C
Square	—	25.4	6.4	N-BK7	22.5 × 22.5	40-20	$\lambda/4$	PS-SQM-1025-C
Round	50.0	—	10.0	N-BK7	40.0	40-20	$\lambda/10$	PS-PM-5010M-C
Round	50.8	—	9.5	N-BK7	43.2	40-20	$\lambda/10$	PS-PM-2037-C
Square	—	50.8	9.5	N-BK7	45.0 × 45.0	40-20	$\lambda/4$	PS-SQM-2037-C
Round	76.2	—	12.7	N-BK7	64.8	40-20	$\lambda/10$	PS-PM-3050-C
Round	101.6	—	12.7	N-BK7	86.4	40-20	$\lambda/10$	PS-PM-4050-C