

# ASPHERIC MIRRORS | Optics

Surface Tolerances	Silicon		Aluminum		Nickel	
	Typical	Mfg Limit	Typical	Mfg Limit	Typical	Mfg Limit
Diamond Turned Surface roughness ( $\text{\AA}$ , RMS)	50	20	150	50	25	10
Spherical radius accuracy (% radius)	0.10	0.02	0.10	0.02	0.10	0.02
Surface sag deviation from nominal aspheric shape (FR)	1.0	0.5	1.0	0.5	1.0	0.5
<b>Dimensional Tolerances</b>						
Diameter (mm)	$\pm 0.1$	+0.00/-0.013	$\pm 0.1$	+0.00/-0.013	$\pm 0.1$	+0.00/-0.013
Center Thickness (mm)	$\pm 0.1$	$\pm 0.01$	$\pm 0.1$	$\pm 0.01$	$\pm 0.1$	$\pm 0.01$
Wedge (arc seconds)	30	1	30	1	30	1
Clear aperture (%)	90	98	90	98	90	98

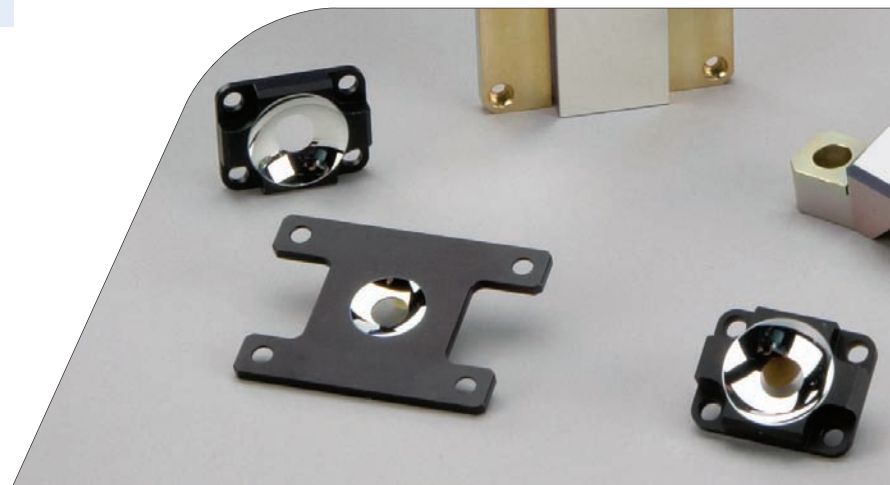
- Hot mirrors
- Cold mirrors
- Durable reflective coatings

## Mirror Types

Flats  
Cylinders  
Toroids  
Freeform

## Material Types

Aluminum  
Copper  
Nickel  
Silicon



The general tolerance specifications above provide a guideline regarding manufacturing capabilities for uncoated optics ranging in size up to 250 mm. The manufacturing limits are not absolute and may vary depending on material; tighter tolerances may be possible. Part specific tolerances may vary. All specifications do not need to be from single column.