

### Si, Cu Zero Phase Shift Turning Mirrors

Material	Si, Cu
Surface Quality	20-10 scratch and dig
Thickness Tolerance	$\pm 0.25\text{mm}$
Diameter Tolerance	+0 / -0.12mm
Mechanical Wedge	<3' (arc minutes)
Power	2F @ 0.633 $\mu\text{m}$
Irregularity	1F @ 0.633 $\mu\text{m}$
Phase Shift	0° $\pm 2^\circ$
Reflection	>99.5%
Absorption	<0.5%
AOI	45°
S <sub>1</sub> / S <sub>2</sub> Radius	Plano

### Si, Cu 90° Phase Shift Mirrors

Material	Si, Cu
Surface Quality	20-10 scratch and dig
Thickness Tolerance	$\pm 0.25\text{mm}$
Diameter Tolerance	+0.0 / -0.12mm
Mechanical Wedge	< 3' (arc minutes)
Power	2F @ 0.633 $\mu\text{m}$
Irregularity	1F @ 0.633 $\mu\text{m}$
Phase Shift	90° $\pm 3^\circ$
Reflection	>98.0%
Absorption	<1.5%
AOI	45°
S <sub>1</sub> / S <sub>2</sub> Radius	Plano

For special mirror applications or other coating types please contact your local Ophir agent - [www.co2optics.com](http://www.co2optics.com)

# BEAM DELIVERY OPTICS

## General Specifications

### ZnSe windows

Material	ZnSe
Surface Quality	20-10 scratch and dig
Thickness Tolerance	$\pm 0.25\text{mm}$
Diameter Tolerance	+0.0 / -0.12mm
Mechanical Wedge	<3' (arc minutes)
Power	1F @ 0.633 $\mu\text{m}$
Irregularity	0.5F @ 0.633 $\mu\text{m}$
Reflection	<0.25%
Absorption	<0.2%
Transmission	>99.3%
S <sub>1</sub> / S <sub>2</sub> Radius	Plano

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