

### End Mirrors

Material	GE	GaAs
Surface Quality	20-10 scratch and dig	20-10 scratch and dig
Thickness Tolerance	+0mm / -0.1mm	+0mm / -0.1mm
Diameter Tolerance	+0mm / -0.1mm	+0mm / -0.1mm
Mechanical Wedge	< 3' (arc minutes)	< 3' (arc minutes)
Power	2F @ 0.633 $\mu$ m	2F @ 0.633 $\mu$ m
Irregularity	1F @ 0.633 $\mu$ m	1F @ 0.633 $\mu$ m
Reflection	99% / 99.5% / 99.7%	99.7%
Absorption	$\leq$ 0.1%	$\leq$ 0.1%
AOI	0°	0°
Side 2 Reflectivity	$\leq$ 0.2%	$\leq$ 0.2%
Clear Aperture	90%	90%

### Si, Cu Total Reflectors

Material	Si, Cu
Surface Quality	10-5 scratch and dig
Thickness Tolerance	+0.0 / -0.2mm
Diameter Tolerance	+0.0 / -0.1mm
Mechanical Wedge	<3' (arc minutes)
Power	1F @ 0.633 $\mu$ m
Irregularity	0.5F @ 0.633 $\mu$ m
Reflection S-pol @10.6 $\mu$ m	99.9%
Absorption	0.1%
AOI	45°

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

# CAVITY OPTICS

## General Specifications

### Output Couplers

#### Material

Surface Quality	ZnSe 10-5 scratch and dig
Thickness Tolerance	±0.2mm
Diameter Tolerance	+0 / -0.1mm
Mechanical Wedge	<3' (arc minutes)
Power	1F @ 0.633μm
Irregularity	0.5F @ 0.633μm
S <sub>1</sub> Reflection @ 10.6μm	30% to 70%
S <sub>1</sub> Reflection Tolerance	±0.2%
S <sub>2</sub> Reflection @ 10.6μm	≤0.2%