

***LASER DAMAGE THRESHOLD SPECIFICATION SHEET  
AND CERTIFICATE OF COMPLIANCE***

DATE: June 20, 2006

CUSTOMER: Optical Surface Technologies

ADDRESS: 2801 Broadbent Parkway NE Suite E  
Albuquerque, NM 87107

ATTN: Anthony Jaramillo

TEST TYPE: Laser Damage Threshold

TEST LOG NUMBER: 19159

SAMPLE SIZE: 1"

COATING TYPE: Not specified

TEST WAVELENGTH: 1064 nm

POLARIZATION: Linear

PULSEWIDTH (FWHM): n/a

SPOT DIAMETER ( $1/e^2$ ): 25  $\mu\text{m}$  and 15.5  $\mu\text{m}$

TEST METHOD: Least Fluence Failure

P.O. NUMBER: 172084

SERIAL NUMBER: 98052-07

RUN NUMBER: N/A

QUANTITY: 1

SUBSTRATE MATERIAL: Not specified

TEST PREP: None

INCIDENCE ANGLE: 0°

PRF: CW

TEST BEAM PROFILE: TEM<sub>00</sub>

AXIAL MODES: Multiple

NUMBER OF SITES: Scan

SHOTS/SITE: 160  $\mu\text{m}$  x 160  $\mu\text{m}$  scan

DAMAGE DEFINITION: No visible damage as observed with 100x Nomarski brightfield microscope.

COMMENTS: Sample exceeds 15.00 MW/cm<sup>2</sup>, peak irradiance Laser Power Threshold with no damage to coating.  
Represents maximum irradiance available.

**Spica Technologies certifies that this sample has been exposed to the conditions described above. All test and calibration data are maintained on file. All instrument calibration is traceable to NIST.**

Test conducted by

A handwritten signature in black ink, appearing to be "W. J. Jaramillo", is written over a horizontal line.