



opto-1064 R

for ultra-high performance on optoSiC+ mirrors

optoSiC® opto-1064 R is a high reflectivity coating with hard metal oxide layers and is a NON-RADIOACTIVE ThF₄-free product.

opto-1064 R retains ultra-high reflectivity for both P- and S-Pol and unpolarised single Nd:YAG wavelengths when used with angles of incidence common in galvano scanning.

opto-1064 R shows low phase shift to meet the toughest demands required for Nd:YAG laser applications.

opto-1064 R coated optoSiC+ mirrors can withstand laser powers >5kW with a measured CW laser induced damage threshold (LIDT) of typically 2000 Watts per linear millimetre of beam radius (1/e² intensity points) ±10% at 45° Angle of Incidence.

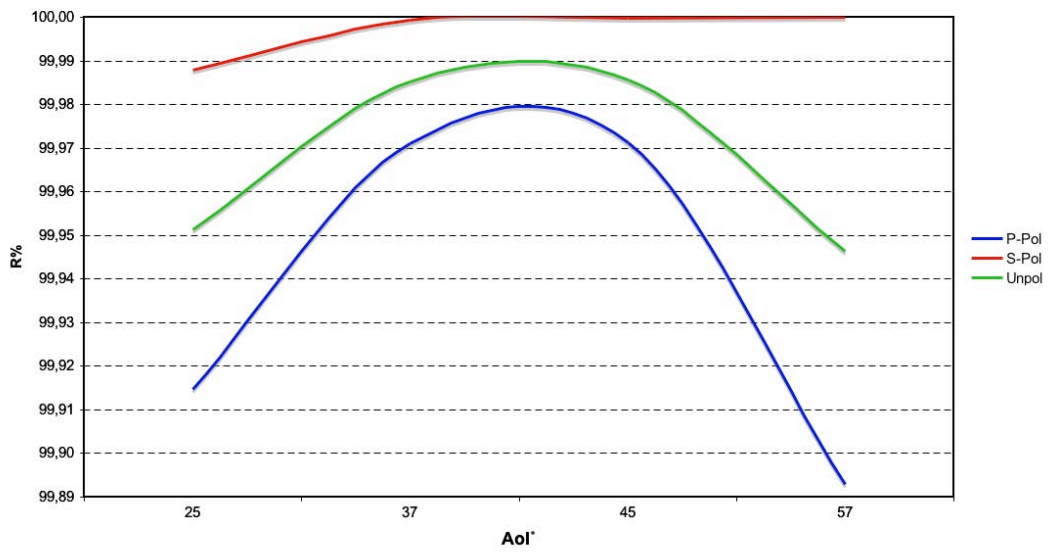
opto-1064 R on optoSiC+ Specifications:

Surface Form Accuracy	< $\lambda/24$ over 90% diameter (1064nm)
Surface Roughness	< 14Å RMS (Rq <0.000017)
Phase Shift	> 5.7% (1064nm at 45° Aol)
Reflectivity @633nm	High (for HeNe laser alignment)
CW LIDT	2000W/mm ±10% at 45° (1/e ²)
Pulse LIDT	10J/CM ² @10ns pulse
Density	6.39g/cm ³
Thickness	5.1µ ±0.25%
Minimum Jig Lip	500µ
Maximum Size	within ø150mm
Adhesion	To ISO 9211-04-02-02
Abrasion	To ISO 9211-04-01-03

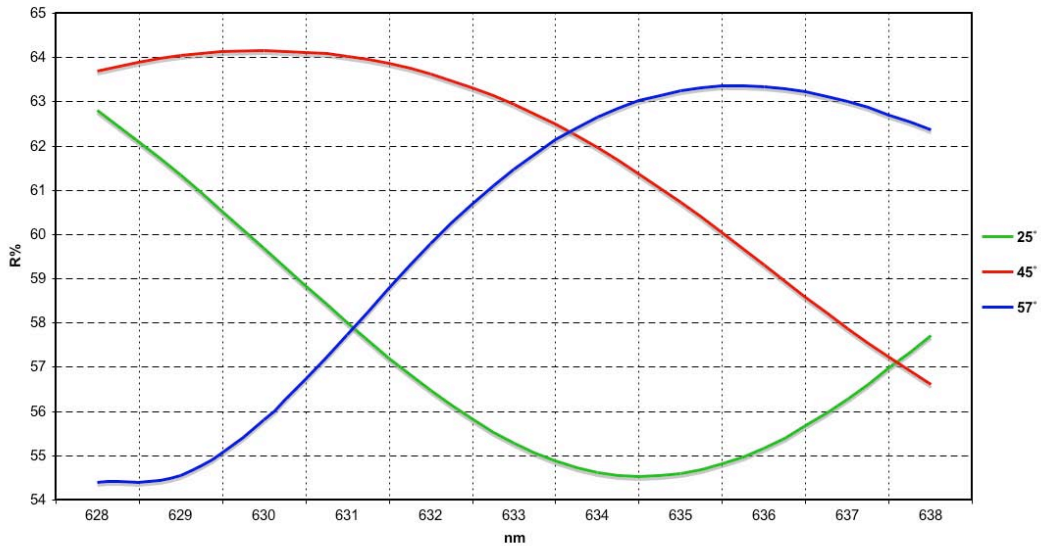
The reflectivity shown in the following graphs are the guaranteed values

Measured samples usually give slightly higher percentage reflectance values

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opto-1064 R @ 633nm



opto-1064 R - Phase Shift

