

COATING PRODUCT #40101

GERMANIUM AR LOW REFLECTION COATING

Description

This high efficiency anti-reflection coating for Ge exhibits exceptional transmittance properties over the 8—12 micron spectral. It is ideally suited for internal optics where optical efficiency and low reflectance are of primary importance

Spectral Performance

Substrate: 0.040" Ge, coated both sides

Spectral region: 8.0-11.5 microns

Product Specifications, Standard:

Tav $\geq$ 98% (through both surfaces)

Rav $\leq$ 0.4% (per surface)

Typical Performance, Standard:

Tav $\geq$ 98.5% (through both surfaces)

Rav $\leq$ 0.3% (per surface)

Product Specifications, Anti-Narcissus :

Tav $\geq$ 98.5% (through both surfaces)

Rav $\leq$ 0.25% (per surface)

Typical Performance, Anti-Narcissus:

Tav $\geq$ 99% (through both surfaces)

Rav $\leq$ 0.2% (per surface)

Quality Standards

This coating shall meet the quality requirements of MIL-C-675, MIL-STD-810, MIL-M-13508, MIL-F-48616, and MIL-C-48497 where applicable.

Coatings are tested to ensure specification compliance and certification can be provided. Customer specified lot-testing is available upon request. For additional information please contact us at 951-926-7666 or sales@exotic-eo.com.

Environmental Performance

Coatings are produced to meet the following test criteria:

Test Available

Adhesion

Abrasion

Humidity

Salt Spray (fog)

Test Method

Cellulose tape test

Cheesecloth test

24 hours at 120° F, 95-100% RH
or 10 days at 120° F, 95-100% RH

ASTM B117-73 for 24 hours

