

COATING PRODUCT #40100

GERMANIUM ANTI-REFLECTION COATING

Description

This durable anti-reflection coating exhibits high transmittance over a broad spectral region. Coating 40100 is ideal for environmentally exposed surfaces which require maximum transmittance.

Spectral Performance

Substrate: 0.040" Ge, 40100 one side
40101 the other side

Spectral region: 8.0-11.5 microns

Product Specifications, Standard:

Tav $\geq$ 97.5% (through both surfaces)
Rav $\leq$ 1.0% (per surface)

Typical Performance, Standard:

Tav $\geq$ 98.5% (through both surfaces)
Rav $\leq$ 0.5% (per surface)

Product Specifications, Special:

Tav $\geq$ 98.5% (through both surfaces)
Rav $\leq$ 0.5% (per surface)

Typical Performance, Special:

Tav $\geq$ 98.5% (through both surfaces)
Rav $\leq$ 0.5% (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 criteria:

Test Available

Adhesion

Abrasion

Humidity

Salt Spray (fog)
Solubility

Test Method

Cellulose tape test

20-cycle eraser test

24 hours at 120° F, 95-100% RH
or 10 days at 120° F, 95-100% RH
Or 28 days at 120° F, 95-100% RH

ASTM B117-73 for 24 hours

