

## 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 [opticalsystems.sales@ii-vi.com](mailto:opticalsystems.sales@ii-vi.com)

#### Environmental Performance

Coatings are produced to meet the following criteria:

#### Test Available

Adhesion

Abrasion

Humidity

Salt Spray (fog)  
Solubility

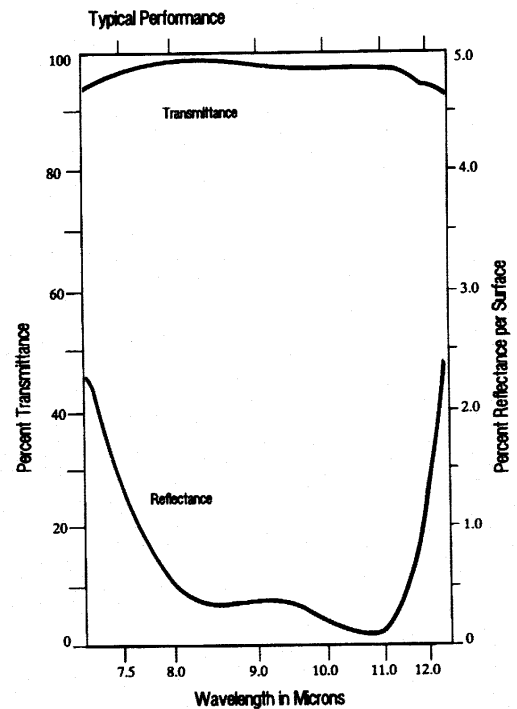
#### Test Method

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



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