



## 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 ≥ 97.5% (through both surfaces)  
Rav ≤ 1.0% (per surface)

**Typical Performance, Standard:**

Tav ≥ 98.5% (through both surfaces)  
Rav ≤ 0.5% (per surface)

**Product Specifications, Special:**

Tav ≥ 98.5% (through both surfaces)  
Rav ≤ 0.5% (per surface)

**Typical Performance, Special:**

Tav ≥ 98.5% (through both surfaces)  
Rav ≤ 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. Please contact an EEO sales engineer for additional information.**

**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

