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. For additional information please contact us at 951-926-7666 or opticalsystems.sales@ii-vi.com

Environmental Performance
Coatings are produced to meet the following criteria:

Test Available Test Method
Adhesion Cellulose tape test
Abrasion 20-cycle eraser test
Humidity 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
Salt Spray (fog) ASTM B117-73 for 24 hours
Solubility

Environmental Performance

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