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 ≥ 98% (through both surfaces)
Rav ≤ 0.4% (per surface)

Typical Performance, Standard:
Tav ≥ 98.5% (through both surfaces)
Rav ≤ 0.3% (per surface)

Product Specifications, Anti-Narcissus:
Tav ≥ 98.5% (through both surfaces)
Rav ≤ 0.25% (per surface)

Typical Performance, Anti-Narcissus:
Tav ≥ 99% (through both surfaces)
Rav ≤ 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 opticalsystems.sales@ii-vi.com

Environmental Performance
Coatings are produced to meet the following test criteria:

Test Available          Test Method
Adhesion                Cellulose tape test
Abrasions               Cheesecloth test
Humidity               24 hours at 120° F, 95-100% RH or 10 days at 120° F, 95-100% RH
Salt Spray (fog)        ASTM B117-73 for 24 hours

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