



North American Coating Laboratories
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TECHNICAL DATA SHEET

3-5 μ m Broadband Anti-Reflective Coating on Zinc Sulfide

Overview

This anti-reflective/high transmission thin-film coating is optimized to cover the 3-5 μ m LWIR region and conforms to the multiple environmental requirements. Typically this coating is utilized in Forward Looking Infrared (FLIR) and or passive thermal radiation systems.

Spectral Performance

Transmission as measured through dual surface coated ZnS witness sample:

- T \geq 98.0% average from 3-5 μ m at standard incidence.

Reflection as measured from a single surface coated ZnS witness sample:

- R \geq 0.5% average from 3-5 μ m at standard incidence.

As with virtually all of NACL's coatings, this formula can be modified for similar performance at other wavelengths.

Mechanical and Environmental Requirements

This coating is designed to meet durability requirements of the following Military Specifications:

Adhesion MIL-C-48497 & MIL-C-675C

Humidity MIL-C-48497 & MIL-C-675C

Moderate Abrasion MIL-C-48497 & MIL-C-675C

This formula can be modified for Severe Abrasion performance on ZnS; however, the spectral performance may be affected. Contact us now for any questions on this or any other coatings we offer.

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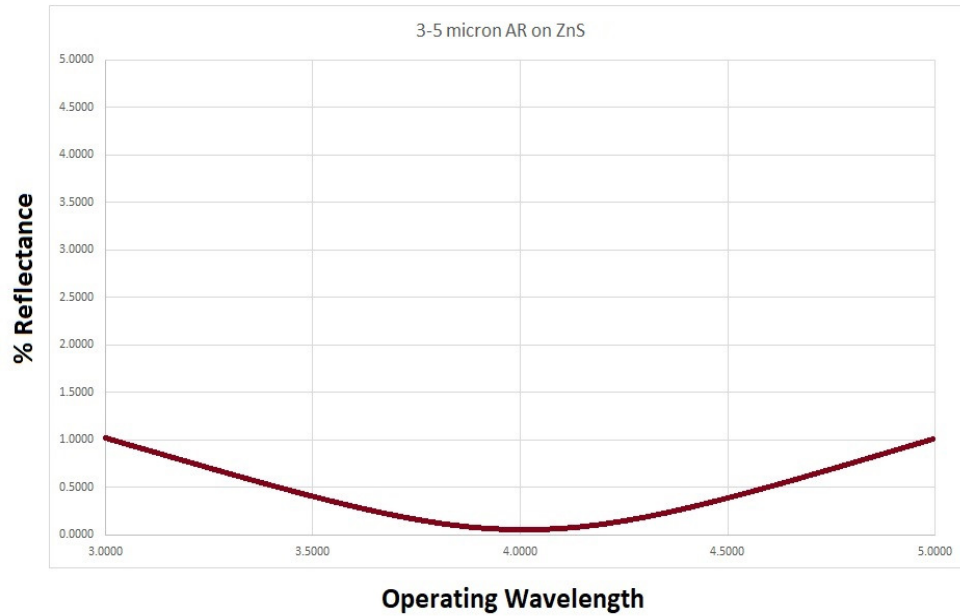
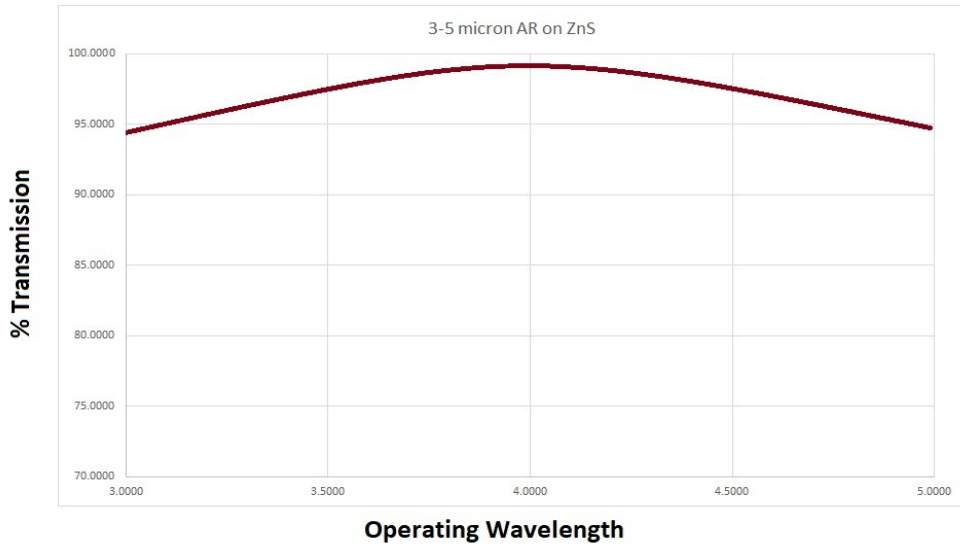
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