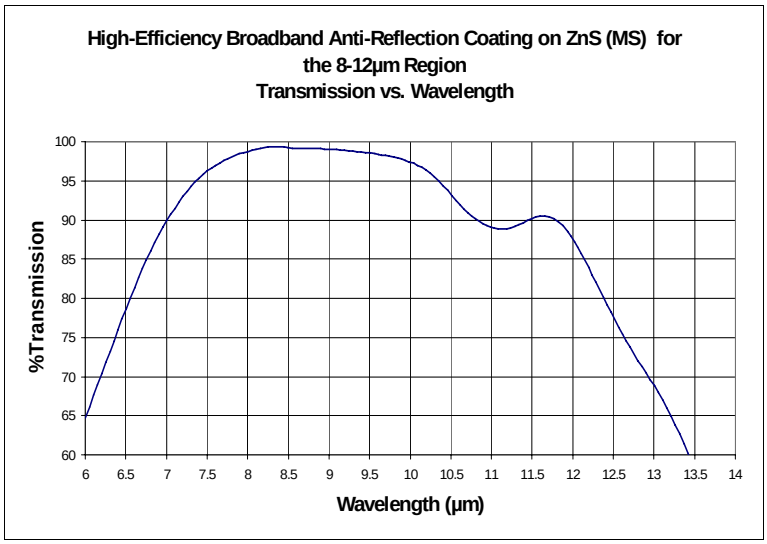
High-Efficiency Broadband Anti-Reflective (BBAR) Coating on Zinc Sulfide MultiSpectral (ZnS MS) and Zinc Sulfide Regular (ZnS), 8 - 12µm

COATING DATA SHEET

Application

This low reflection/high transmission coating is designed to cover the 8 - 12µm region and satisfy the environmental requirements listed below. While low in absorption it is intented to be used in FLIR or passive radiation systems.

This coating can be applied to ZnS Regular and ZnS MultiSpectral Grades.



Spectral Performance

Transmission when measured through a 3mm thick ZnSe substrate coated on both surfaces with the broadband AR coating.

T >= 92.5% average from 8 - 12µm

Reflection from a single surface when coated with the broadband AR coating.

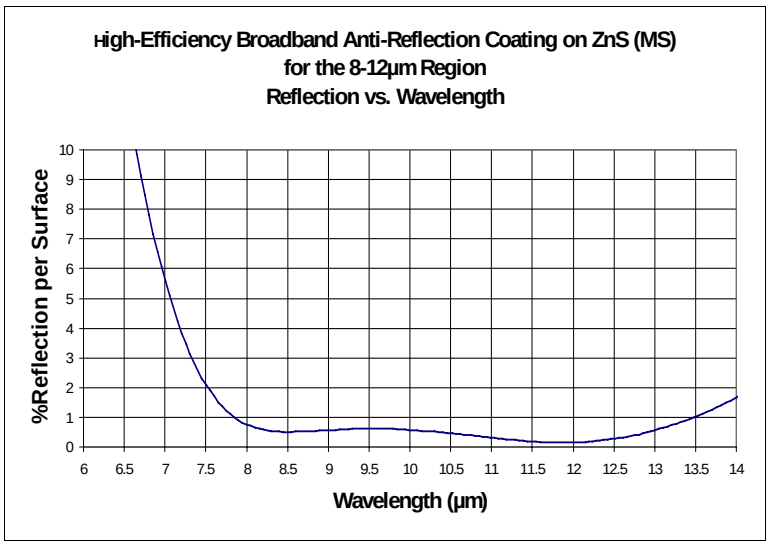
R <= 0.5% average per surface 8 - 12µm
R <= 1.0% absolute per surface 8 - 12µm

This coating can be modified for similar performance at other wavelengths.

Environmental Performance

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

Adhesion	MIL-C-48497 MIL-C-675C
Humidity	MIL-C-48497 MIL-C-675C
Moderate Abrasion	MIL-C-48497 MIL-C-675C



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