

## CO 2409 ZnSe 8-12

High efficiency radioactive free antireflection coating for Zinc Selenide 8 - 12  $\mu\text{m}$

### DESCRIPTION

This coating is designed for internal surface (I.S.) applications and offers maximum transmission combined with minimum reflection. Typically used in thermal imaging systems. This coating does not contain any radioactive materials.

### SPECTRAL PERFORMANCE

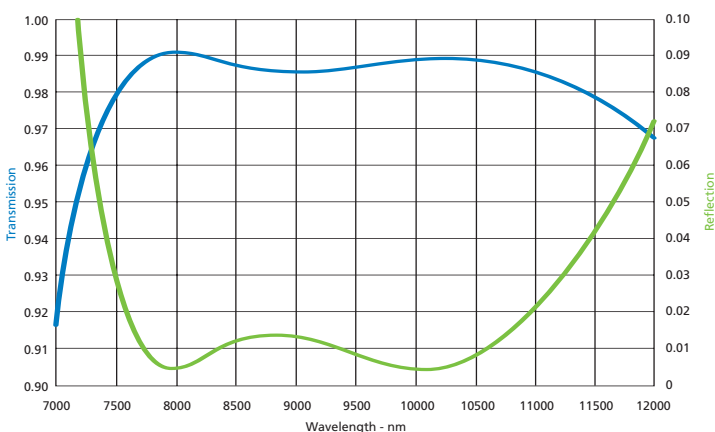
Transmission values are for a 1 mm thick Zinc Selenide substrate which has been coated on both surfaces with CO 2409.  
TRANSMISSION > 98% (average) from 8 - 12  $\mu\text{m}$

Reflection values are from a single Zinc Selenide surface coated with CO 2409.  
REFLECTION < 0.5% (average) from 8 - 11  $\mu\text{m}$

This coating can be produced to meet any other "industry standard" spectral specification for the 7.5 - 12.0  $\mu\text{m}$  band.

### ENVIRONMENTAL PERFORMANCE

The coating will withstand the following environmental tests which will be carried out on a representative witness piece coated in the same batch.



ADHESION MIL-C-48497 para 4.5.3.1  
TS1888 para 5.1

HUMIDITY MIL-C-48497 para 4.5.3.2  
TS1888 para 5.2.1.2

ABRASION MIL-C-48497 para 4.5.3.3  
TS1888 para 5.4.1

This coating is also unaffected by the following environmental tests which will be performed upon request.

SALT SOLUTION MIL-C-48497 para 4.5.5.2  
TS1888 para 5.2.1.1

TEMPERATURE CYCLE MIL-M-13508C para. 4.4.4