

## CO 3429 Si 3-5

High efficiency radioactive free antireflection coating for Silicon 3 - 5  $\mu\text{m}$

### DESCRIPTION

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

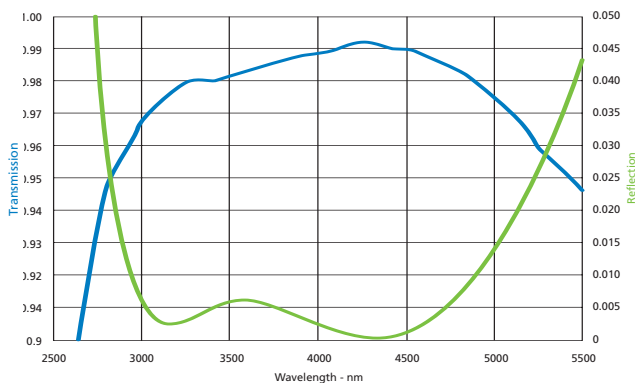
### SPECTRAL PERFORMANCE

Transmission values are for a 1 mm thick Silicon substrate which has been coated on both surfaces with CO 3429.  
TRANSMISSION > 98% (average) from 3 - 5  $\mu\text{m}$

Reflection values are for a single Silicon surface coated with CO 3429.  
REFLECTION < 0.5% (average) from 3 - 5  $\mu\text{m}$

### 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 TS1888	para 4.5.3.1 para 5.1
HUMIDITY	MIL-C-48497 TS1888	para 4.5.3.2 para 5.2.1.2
ABRASION	MIL-C-48497 TS1888	para 4.5.3.3 para 5.4.1