

CO 4019 Ge 8-12

High durability radioactive free antireflection coating for Germanium 8 - 12 μm

DESCRIPTION

This coating is designed for modular interface surface (M.I.S.) applications where maximum durability is required whilst maintaining high transmission.

This coating does not contain any radioactive materials.

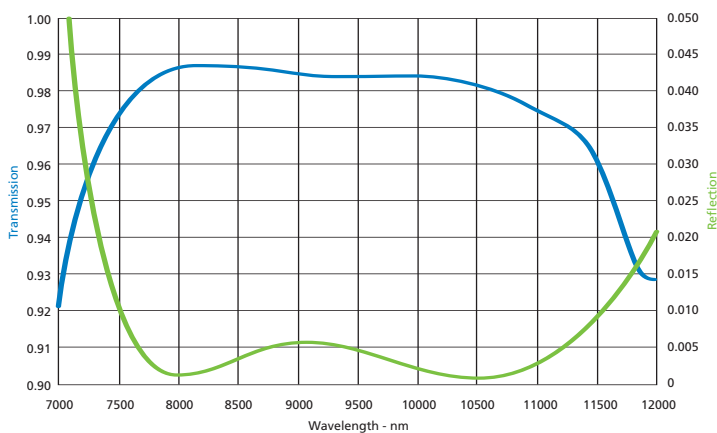
SPECTRAL PERFORMANCE

Transmission values are for a 1 mm thick Germanium substrate which has been coated on one surface with CO 4019 and on the second surface with CO 4009 (high efficiency coating).
TRANSMISSION > 98% (average) from 8 - 11.5 μm

Reflection values are for a single Germanium surface coated with CO 4019.
REFLECTION < 0.5% (average) from 8 - 11.5 μm

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 4.5.5.1 para 5.4.2
SALT SOLUTION	MIL-C-48497 TS 1888	para 4.5.5.2 para 5.2.1.1
TEMPERATURE CYCLE	MIL-M-13508C	para 4.4.4