

CO 4004C Ge 8-12

'Covert' Hard Carbon coating
for Germanium
8 - 12 μm

DESCRIPTION

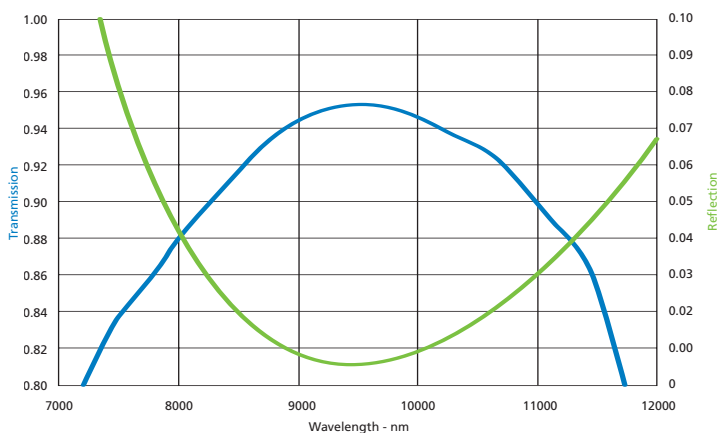
The standard hard carbon coating (CO 4004) is post-treated with a visible antireflection process. This reduces visible reflectance from around 17% average to < 2% average. This coating is applicable in situations where glint would be disadvantageous.

SPECTRAL PERFORMANCE

Infrared performance is as specified for CO 4004. Additionally REFLECTION is < 2% from 400 - 700 nm.

ENVIRONMENTAL PERFORMANCE

Performance of the basic hard carbon coating is as specified for CO 4004. The overcoat will not fully pass the windscreen wiper test so this process is not indicated for applications in which wiper blades are used to clean the window.



An overcoated witness piece will be tested to the following specifications:-

ADHESION	MIL-C-48497	para 4.5.3.1
HUMIDITY	MIL-C-48497	para 4.5.3.2
ABRASION	MIL-C-48497	para 4.5.5.1

Additionally, an untreated hard carbon coated witness piece will be tested per CO 4004.