

data sheet

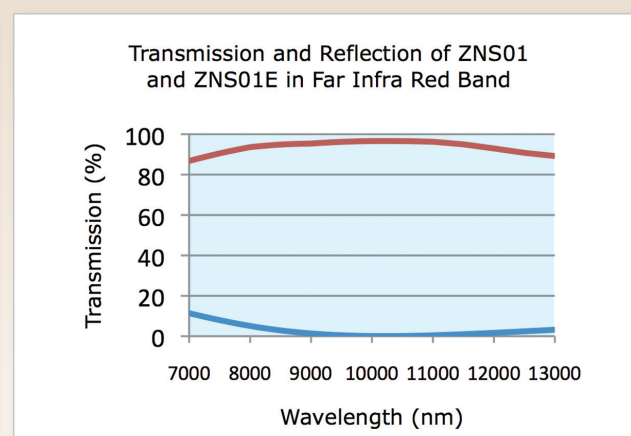
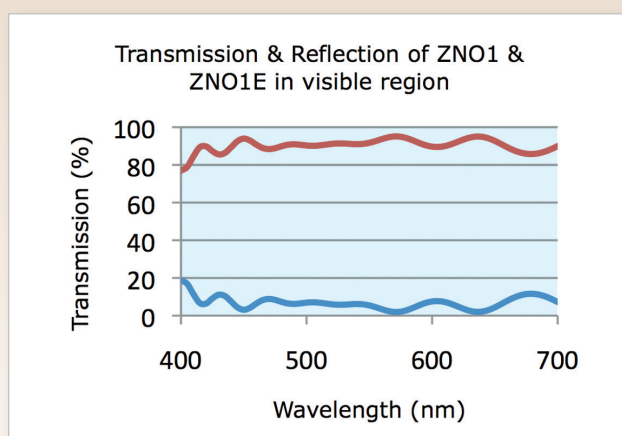


Process ZNS-01/E

This pair of coatings are designed to give maximum transmission at wavelengths in the visible and 8-12µm region. Performance can also be adjusted to maximise transmission of near IR wavelength lasers such as those at 1064 and 1540 nm.

Typically used in optical systems operating at more than one wavelength region the ZNS-01E process is used on external surfaces, it is also a non radioactive coating.

Spectral Performance (on a 1 mm thick witness piece)



Transmission values are on a multispectral Zinc Sulphide substrate which has been coated on both surfaces with ZNS-01

TRANSMISSION > 91% (average) from 450 - 650nm

TRANSMISSION > 95% (absolute) at 1064 or 1540nm

TRANSMISSION > 92% (average) from 8 - 11.5µm

Environmental Testing

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

This coating will pass the following tests.

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

SALT SOLUTION MIL-C-48497 para 4.5.5.2

TS1888 para 5.1

TS1888 para 5.2.1.2

TS1888 para 5.4.2

TS1888 para 5.2.1.1

The ZNS-01E process is also windscreen wiper and rain erosion resistant.

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Vortex reserves the right to amend or withdraw specifications without prior notice