



# TECHNICAL DATA SHEET

## Beam Splitter Coatings

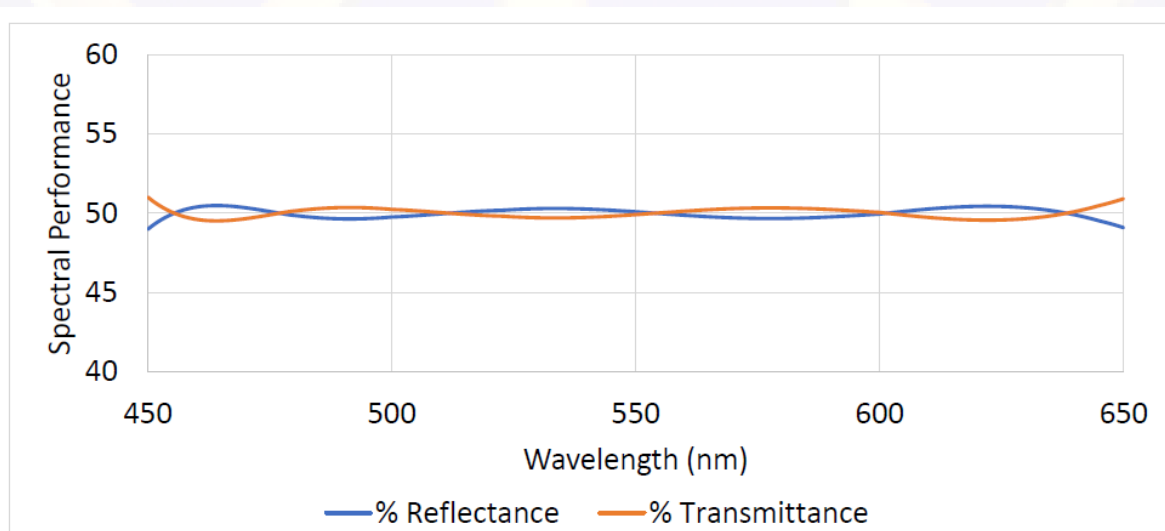
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### OVERVIEW

Beam splitter coatings divide incident light into transmitted and reflected beams using interference effects. Essential in cameras, microscopes, and laser systems, they enable fluorescence microscopy, laser beam direction, and optical filtering. Created via lithographic or interference filter processes, these coatings are crucial for precise light control in various optical applications.

### OPTICAL COMPONENTS

- These optics can be coated to match a desired spectral performance in both reflectance and transmittance.
- OFS has experience coating these in the UV, visible, NIR, and SWIR.
- These filters will often pass:
  - Severe Abrasion per mil spec. 13830B
  - Adhesion per mil spec. 13830B
- The graph below shows the theoretical data for an all oxide beam splitter coating.



**Optical Filter Source**

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