TECHNICAL DATA SHEET

High-Reflective Coatings

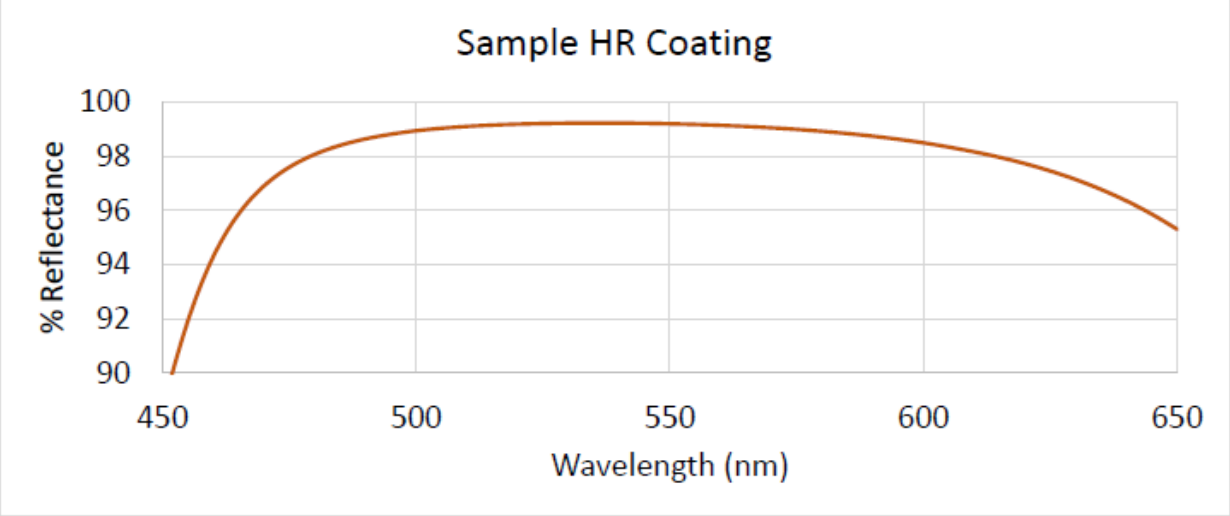
Optical Filter Source - Optics solutions redefined

OVERVIEW

High-Reflective (HR) coatings are advanced optical treatments that enhance reflectivity across a wide range of wavelengths. In laser systems, they enable precise beam control and amplification, ensuring optimal performance. Astronomical telescopes rely on HR coatings to improve mirror reflectivity, enhancing light-gathering capabilities for higher-resolution imaging. In optical communication, these coatings optimize signal transmission in fiber optics, improving efficiency. They also play a critical role in optical resonators and cavity systems by facilitating coherent light amplification, a fundamental component in scientific and laser applications. HR coatings are indispensable in modern optical technologies, maximizing performance and efficiency across various industries.

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.



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COATINGS DICING PHOTOLITHOGRAPHY