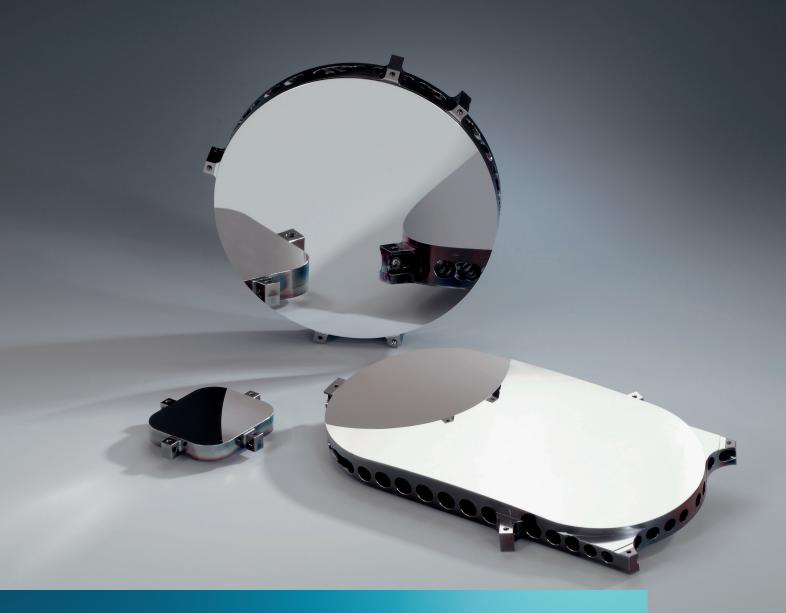


Fraunhofer Institute for Applied Optics and Precision Engineering IOF



Coatings for space and astronomy applications

Qualified and applied coatings



Qualified and applied coatings

Cover: TMA-mirrors with protected Ag-coating.

Top: Coating of a metal mirror.

Motivation

We develop and customize coatings for astronomy and space-based applications. The portfolio includes coatings based on Mo/Si, Sc/Si or B₄C for EUV, Al and fluoride for DUV, Ag and Au for high reflectivity, as well as dielectric antireflection-, absorbing-, and structured coatings. Fraunhofer IOF offers services in coating qualification, handling of delicate substrates, cleaning of substrates, construction of holders, and coating of complex optical components.

Our expertise

- Coating design in order to meet the requirements of the application
- Development of deposition processes and coating evaluation
- Substrate cleaning and consideration of cleanliness requirements
- Inspection of coated and uncoated optical elements
- Documentation

What we offer

- Highly reflective coatings from EUV to IR (Al-, Ag- or Au-based)
- Antireflection coatings for broad bandwidth and large ranges of light incidence angles
- Optical dense-structured coatings or absorbing coatings
- Handling and coating of complex optical components
- Realization of test programs



Testing of coatings.

Contact

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