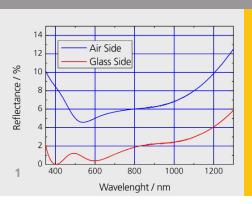
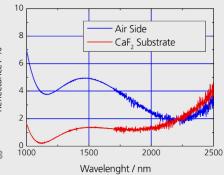


FRAUNHOFER INSTITUTE FOR APPLIED OPTICS AND PRECISION ENGINEERING IOF







 Reflectivity curves of reflectivity-reduced chromium layer – air side and glass side.
Structured chromium coating on CaF₂ Lens.
Reflectivity curves of reflectivity-reduced chromium layer for the near infrared spectral range / CaF₂ substrate.

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STRUCTURABLE COATINGS FOR MICROOPTICAL APPLICATIONS

Motivation

The manufacture of scales, benchmarks, reticles, apertures and calibration standards is a very important area of practical optics. These microstructures are commonly applied in industrial image processing, medical engineering, microscopy, sports and military optics, metrology and in photographic cameras. New applications require structurable coatings with new or enhanced optical or mechanical properties.

Competencies

- Deposition of structurable chromium
- coatings
- Reflectivity-reduced chromium coatings for single wavelengths from UV- to IR spectral range
- Reflectivity-reduced chromium coatings for various broad wavelength ranges
- Coating deposition onto photoresists

- Coatable substrate size: up to 500 x 500 x 100 mm³
- Deposition onto various substrate materials

Our offer

- Development of new or enhanced structurable optical coatings
- Adaption of coating properties to requirements of various applications
- Characterization and testing of new coating materials
- Prototype coatings