

Optical Coating of Interference & Special Filters

Product Information

SCHOTT designs and offers customized coatings and has extensive capabilities to deposit thin films onto glass and other substrates for spectral wavelengths between 200 nm and 3000 nm using different technologies (e.g. ion assisted deposition, magnetron sputtering).

Applications

Coated substrates and components are used in optical-, laser- and illumination-systems, in the industrial sector, as well as in applications in space, defense and medical.

Available coatings range from shortpass to longpass filters, bandpass filters, bandblock filters and more:

- Mirrors (high power laser mirrors, cold mirrors, etc.)
- AR-coatings (UV, VIS, IR wavelengths, or for specific wavelengths, combined AR & Hard coatings)
- Laser coatings with high resistance to flux
- Dielectric beam splitters
- Polarizers

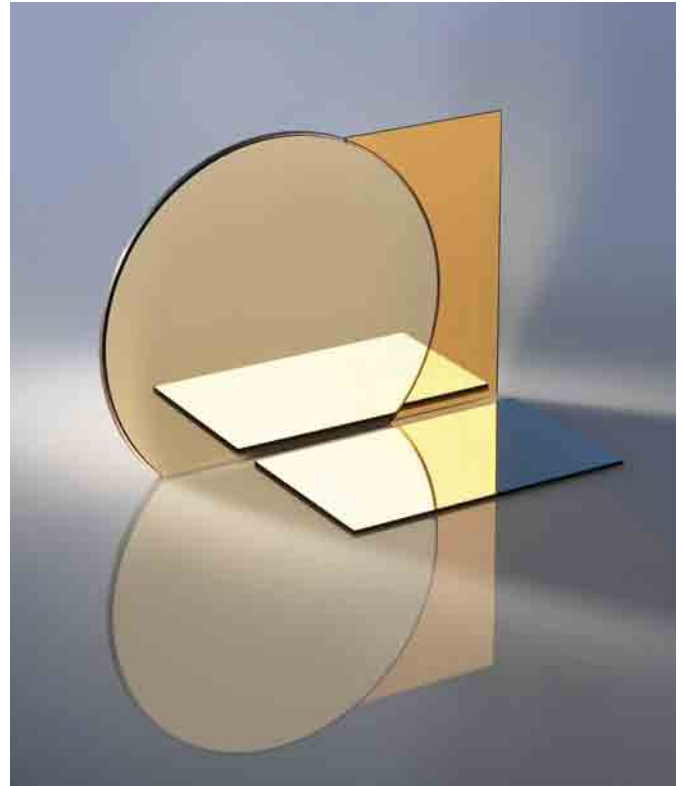
The different coatings form various products used in different applications:

- Steep edge filters
- Notch filters
- Fluorescence excitation
- Distance measurement
- Digital imaging
- Medical analysis
- Process control

Materials

Various types of materials can be coated:

- Optical glass
- Fused silica
- Glass ceramic (ZERODUR®)
- Borosilicate glass (e.g. BOROFLOAT®33)
- Optical filter glass



Specifications

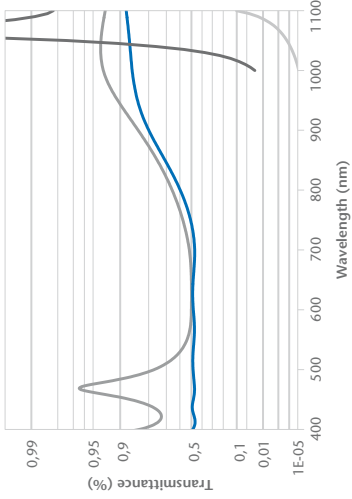
- Dimensions between 1 mm and 400 mm (diameter)
- Coating of different supply forms and components (e.g. prisms, lenses)
- Spectral range between 200 nm and 3000 nm, according to ISO 10110
- Measurement accuracy: up to 0.05%

Quality Assurance

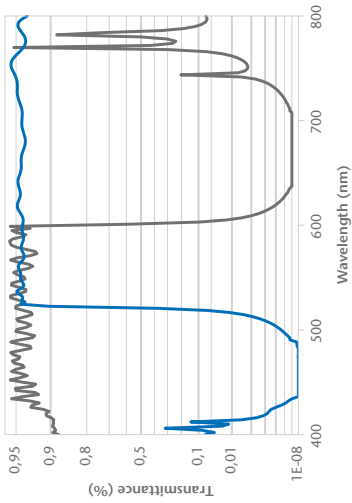
Quality control is based on statistical process control as well as on rigorous final inspection. Measurement instruments include a broad range of spectrophotometers, vision systems, beam deflection, etc.

SCHOTT Interference Filter

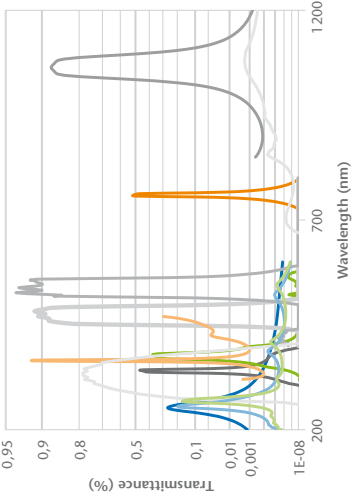
Beam Splitter



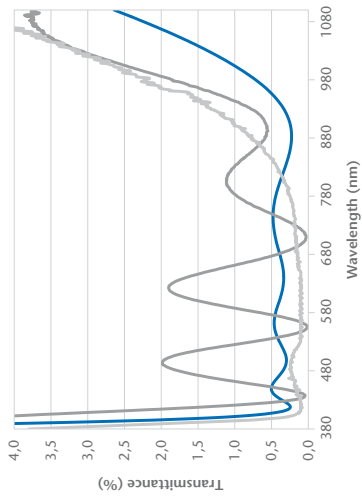
Longpass Shortpass



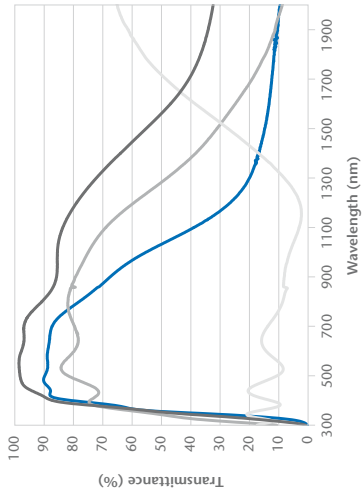
Bandpass UV; VIS; NIR



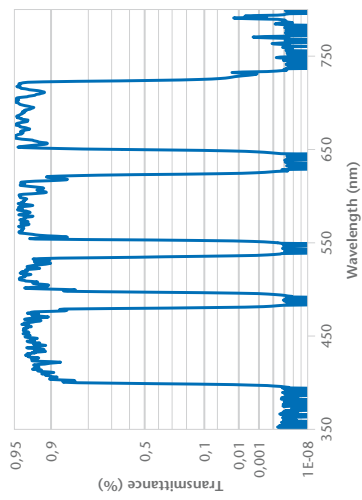
Black Chrome



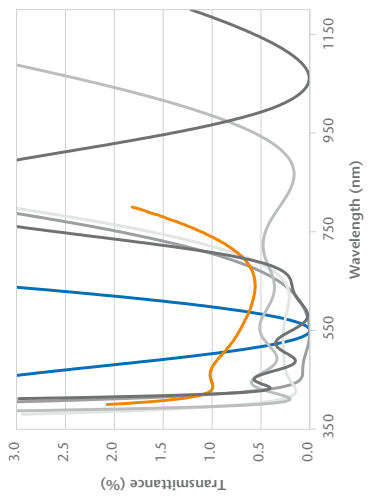
TCO



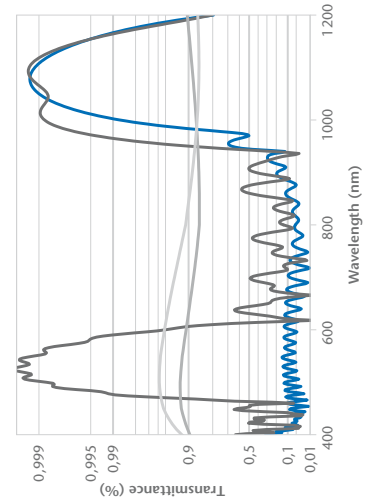
Multiple Notch



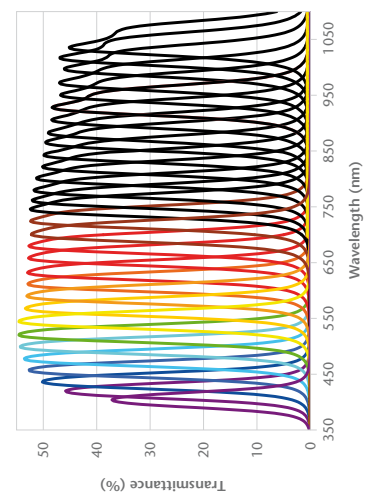
Anti Reflection



Mirrors



Veril



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