

Coating

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

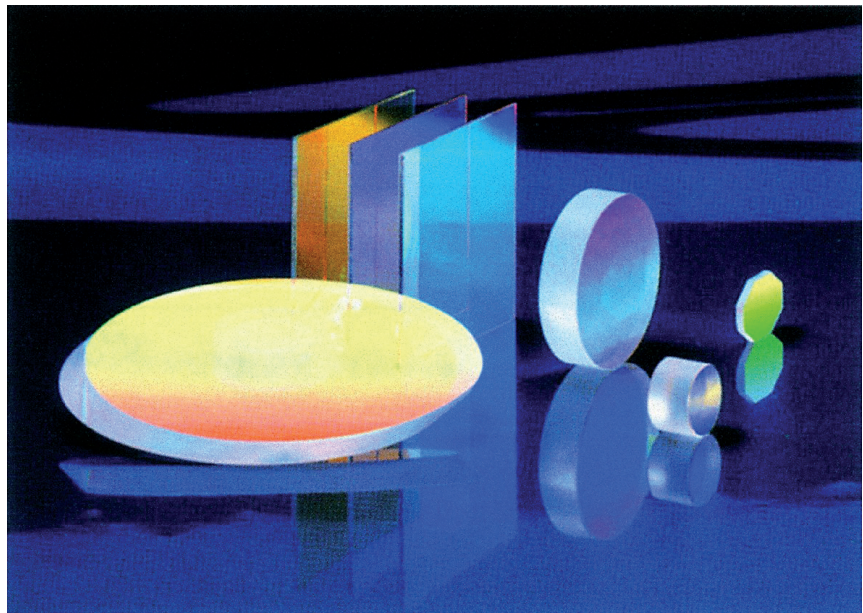
Coated substrates and components are used in optical-, laser- and illumination-systems, in the industrial sector, as well as in applications in space, defense and medical.

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 spectro-photometers, vision systems, beam deflection, etc.

For more information please contact:

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