COATING.
WIDE RANGE OF SPECIFIC SOLUTIONS.
The coatings listed show a part of our coating capabilities. We also develop customized solutions and advise you. Environmental- and stress tests of the coatings for the qualification are carried out in-house.

**SUBSTRATES**

Typical substrates are:
- Wide variety of optical glasses
- Flat glass, lenses and prisms
- Sapphire, quartz and quartz glass as well as glass ceramic and ceramic
- Substrate size up to 400 x 800 mm, Ø 450 mm
- Contract coating on customer substrates on request

**SPECIFICATIONS**

**General**
- Wavelength ranges for:
  - Metallic mirrors: 120 nm–12 µm
  - Dielectric mirrors: 190 nm–3 µm
  - Filters, beam splitters, black chrome: 250 nm–3 µm
  - Antireflection coatings: 190 nm–5 µm
  - Conductive layers: 400 nm–1.6 µm
- All polarization types are specifiable (p, s and average value)

**Mirrors**
- Metallic and dielectric mirrors
- Narrowband and broadband mirrors
- Front and back surface mirrors

**Antireflection coatings**
- Narrow, multi- and wide-band spectral ranges
- Residual reflection ≤ 0.05 %

**Filters**
- Edge filters: Long- (LWP) and short pass (SWP)
- Edge position tolerance from 0.5 % of the nominal wavelength
- Narrowband filters (T-band) and notch filters (R-band)
  - Center position tolerance from 0.2 % of the nominal wavelength
- Laser protection filters
- Single and multi-band filters with freely definable widths and positions

**Beam splitters**
- Available on a plano-parallel plate or prism cube:
  - Cemented
  - Optically contacted
  - With defined airspace
  - Polarizing beam splitters (PBS)
  - Non-polarizing beam splitters (NPBS)
  - Neutral beam splitters
  - Narrow, wide or multiple spectral regions with freely definable splitting ratios

**Absorbing layers**
- Chrome-free absorber layers available
- Narrow- and broadband
- Efficient from air and/or glass sides
- Structurable (etch and lift-off processes)

**Layers for non-optical applications**
- Wear protection layers for glass, glass ceramic and ceramic
- Nitridic layers, e. g. CrN
- Barrier layers, e. g. etch stop

**Surface imperfections**
- Assessment according to ISO 10110
- Specifications depending on the layer system e. g.:
  - AR: 5/C3 x 0.025 over Ø 25 mm
  - Filters: 5/C3 x 0.040 over Ø 25 mm