Our Products & Competencies Optimize Your Product

Short Glance at Advanced Optics, “Your Partner for Excellence in Optics”

SCHOTT Advanced Optics, a leading glass manufacturer offers a broad range of cutting edge materials and components for various optical applications. With its experience of more than 125 years in optics and as the last remaining optical glass producer in the western world, Advanced Optics has continuously extended its capabilities, competencies and product portfolio and should be your first contact when it comes to optics.

Advanced Optics is already part of many people’s lives through providing materials and components into various products addressing numerous industries. We hold very close customer relationship worldwide and are not only a supplier but also a consultant, development partner, advisor, and a pioneer and influencer of the international optical industry (REACH, RoHS).

Today, the product portfolio of Advanced Optics holds more than 120 optical glasses, special materials (e.g. active laser glass, IR-materials, sapphire), ultrathin glass, high-precision optical components, wafers, and optical filters (optical filter glass and interference filters).

Advanced Optics masters the entire value chain: from customer specific glass development and its production all the way to high-precision optical product finishing, processing and measurement, and developing customized solutions all over the world for applications in optics, lithography, astronomy, opto-electronics, life sciences, research, and more.

More information can be found at: www.us.schott.com/advanced_optics/products

<table>
<thead>
<tr>
<th>Products</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Optical Components</strong></td>
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<td>Aspherical Lenses</td>
</tr>
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<td>Leveraging the extensive portfolio of all optical materials, SCHOTT offers custom high precision optical components: from prisms (pressed, polished or coated) to windows &amp; substrates, aspherical lenses (CNC-machined, molded or polished), spherical and cylindrical lenses, mirrors, interference filters and more. In addition state-of-the-art polishing, coating and metrology is being applied.</td>
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<td><strong>Optical Filters</strong></td>
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<td>Blue Filter Glass</td>
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<td>SCHOTT offers one of the broadest portfolios of optical filters comprising of color glasses and customized interference filters. More than 55 filter glasses for different spectral ranges, and special interference coatings (bandpass, longpass, shortpass, notch, protective, decorative) can be supplied together with special filters such as night vision, contrast enhancement and solarization filters.</td>
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Products

**Optical Materials**
Active & Passive Laser Glass | CONTURAN®, CONTURAN® DARO | HT & HTultra Glasses | i-line Glasses | Infrared Chalcogenide Glasses | Low Tg Glasses | Optical Glass | Radiation Resistant Glass | Radiation Shielding Glass | Sapphire | Wafers & Thin Glass | ZERODUR® | Zinc Sulfide

More than 120 high quality optical glasses addressing the requirements for various applications. Special variants such as LowTg glasses especially suited for precision molding, HT & HTultra variants, with a superb transmission as well as HH glasses, with an extraordinary homogeneity. These glass types are available as raw glass, semi finished products and in different supply forms, e.g. rods, tiny rods and more.

Our specialty glasses consist of Active and Passive Laser Glass, (e.g. erbium & neodymium doped) IR-Materials (ZnS FLIR & ZnS Clear, Chalcogenide glasses), radiation resistant glasses, radiation shielding glasses and technical glasses. Most of these materials are supplied as final component.

**Wafers & Thin Glass**
AF 32® eco Thin Glass | B 270® & B 270® i ultra white Glass | D 263® LA eco Thin Glass | D 263® M Glass for Microscopy Cover Slips | D 263® T eco Thin Glass | Glass Wafer & Substrates | MEMpax® | MICROCROWN Glass for Microscopy Slides | Ultra-thin Glass

Wafers and Substrates made of various materials are especially designed to enable applications in Electronics, Semiconductor, Cover & Touch Industry and Biotech. Materials such as B 270®, AF 32® eco, D 263® T eco and MEMpax® produced with proprietary up- and down-draw processes are available in different sizes (e.g. up to 12’’), thicknesses (down to ultra thin 25 μm) and processing stages (polished, drilled, structured, customer specific designs). The materials are suitable for the combination with silicon wafers in clean room environments.

**ZERODUR®**
ZERODUR® | ZERODUR® K20

The extremely low expansion glass ceramic with extraordinary properties for any demanding applications in which geometry and distance accuracy is critical under temperature changes. The ceramic is available as ZERODUR® and the special version ZERODUR® K20 (additional ceramization) and can be supplied as blank or final component (polished/coated/bonded), or as lightweighted version with a weight reduction of appr. 90%.

Competencies, Capabilities & Equipment

**SCHOTT master the entire value chain:**
- Melting
- CNC-machining
- Pressing
- Polishing
- Coating
- Cementing
- Framing
- Metrology

**SCHOTT works with state-of-the-art equipment such as:**
- Interferometry
- Spectrometry
- Magnetron Sputtering
- Pitch Polishing
- Diamond Turning Machine
- MRF-Machine

Besides the extensive product portfolio SCHOTT Advanced Optics offers:
- More than a century of experience
- Global engineering & production network
- R&D service worldwide
- Technical service & application support
- Custom development & tailored production
- Quality benchmark of the industry