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PRODUCTS OR MACHINERY

Optical Glass products and Optical Coatings Front surface mirrors Optical windows Optical substrates ITO-coatings Dielectric beamsplitters Antireflection coatings Heat reflecting hot mirrors Heat absorbing filters Dielectric mirrors and filters Custom optical thin film coatings Quartz / Fused Silica components Optical glassfilters from SCHOTT raw materials Glass Wafers Glass Ceramics Laser Optics Cemented glass- and filter combinations Opal Glass and Flashed Opal glass Diffusor glass Cylinder lenses Chemically tempered glass Thermally tempered glass CNC components Custom optics

Our CEC ITO-coating series are used, whenever an electrically conductive surface that at the same time offers a high optical transparency is required. This is achieved by sputter-coating a thin conductive layer of indium-tin-oxide onto high quality glass substrates. Our ITO-coated glass is often used for display technology and micro structuring applications. Other typical applications based on our ITO-glass are the manufacturing of transparent ITO-electrodes, integrated invisible flat antennas, antistatic windows, heating and de-icing windows with an optical function, far infrared mirrors and many other unique technical appliances. For research and development, we manufacture ITO-coated microscope slides at almost any common standard or non-standard dimension. Because of the low electrical square resistances we have available, our ITO-coatings have often be used to shield electromagnetic fields while still transmitting most of the visible light.

Our CEC-S and CEC-P ITO-coating series feature a SiO₂ passivation layer. This quartz barrier layer is only a few nanometers thick, and is located between the substrate and the ITO-coating. This offers an increased electrical insulation performance and minimizes possible leaching of alkali-oxides from the glass into liquid crystals. The process of coating this SiO₂ passivation layer between the ITO thin film coating and the glass substrate, is advantageous for most electronic applications and is efficiently integrated into the production process. It does not add any extra cost to our ITO-coated end product. In addition to our S- and P-type of ITO-coatings, ITO-coated quartz glass (CEC-Q), ITO-coated borosilicate glass (CEC-B), ITO-coated 1737 glass (CEC-A), ITO-coated EAGLE2000 glass (CEC-E) and ITO-coated thin glass (CEC-T) are part of our standard delivery program (see chart on the right). The manufacturing of ITO-coatings can be customized to your requirements. Substrate material, optical transmission, square resistance, the passivation layer or other technical properties can be adapted to your technical needs on a per-coating-run basis. Please use our coating inquiry form to request your customized ITO-coating.

Company Profile of **Präzisions Glas & Optik GmbH**

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