Advanced Optics website reveals new look

Modern and target group oriented: the new SCHOTT Advanced Optics website presence has been online since November 2012, and includes easier navigation, reviewed contents as well as new website areas and functions, that give it a completely new look.

The internet has become the prime information medium for all of our target groups and will continue to gain an importance in the future. This was sufficient reason for Advanced Optics to satisfy market demand for an up-to-date, innovative, and above all, informative website presence.

Overriding objectives of the website relaunch included optimizing the structure and clear arrangement of all the pages, the integration of new, relevant areas, but also, taking into account user behavior in the overall design, as well as improving the search functions in search machines like Google.

With remarkable results: www.us.schott.com/advanced_optics. The framework of the new website is based on the five main categories ‘Products’, ‘Applications’, ‘Community’, ‘Downloads’ and ‘About Advanced Optics’. The ‘Products’ section portrays our comprehensive product portfolio in a compact and clear manner, with all the benefits, supply forms and technical details. The days of extensive scrolling to view all the contents are a thing of the past. Also new is the option of an A-Z search function to find the desired product. The ‘Applications’ section gives an overview on which products can be used in which application areas and typical applications are explained in detail. The ‘Community’ section is a brand new addition to the website which offers customers the use of technical papers and online tools, for example, the interactive Abbe-Diagram giving an overview on all available glass types and the corresponding data sheets. Furthermore, information is provided on planned events, such as trade fairs or workshops. The ‘Download’ area was also completely revamped and offers new options: brochures, flyers and data sheets can be selected via the relevant product category or by entering the initials. The option of downloading several downloads at the same time is also given. The category ‘About Advanced Optics’ includes information on the global facilities and their core competencies, as well as the main capabilities and latest technology. Here you will also find the latest news and have the option to subscribe to our e-mail newsletter.

To promote dialog with our customers and give information on current events, the new site offers at the foot of each page the option to contact us via an interactive interface and to join our social networks.

Even after the relaunch, we have a number of new ideas on how to optimize our online presence even further. Additional functions are to be added to the download section and an "FAQ" area will become part of the ‘Community’. For feedback or other suggestions regarding our new website please contact us at: info.optics@us.schott.com.
New Blue – SCHOTT extends Blue Filter Glass Portfolio

New Glass Type BG62 released

SCHOTT is offering one of the broadest portfolios of optical filter glasses with top quality and extraordinary optical performance. Within this portfolio the “BG6x” series of the blue glasses being specifically designed for the application as IR-cut filter for digital cameras and camera phones, has been extended by the new glass type, BG62. Whereas the two already launched glasses BG60 and BG61 were designed especially for thicknesses of 0.3 mm, the new BG62 is a glass especially developed for applications using filter glasses with thinner thicknesses. BG62 has a 50% transmission value of approx. 644 nm for thicknesses of 0.21 mm for the infrared edge of the transmission curve. With this characteristic the BG62 is mainly following the BG60, but for applications with thinner filter glass being used.

Consequently the glass shows the same outstanding properties than the other glass types of this series withstanding severe climatic conditions and the extremely demanding damp-heat-test of 85% relative humidity and 85°C. The filter characteristics can be further enhanced by using an additional coating to meet the most demanding specifications.

As a new additional supply form, SCHOTT is introducing thin matt plates having a thickness of 0.4 mm that will be presented to the market next year. SCHOTT is also offering other types of Blue Glass customized in their transmission performance to meet specific customer requirements and enable better customer orientated solutions. All these efforts are aligned to our mission to improve the processing of Blue Filter Glasses for our customers and to create new ways of leveraging the benefits of this new material by offering new supply forms and customized solutions.

We would appreciate any feedback to enable us to review and improve our product line. Please be so kind and send an e-mail to info.optics@us.schott.com.

BACK TO INDEX
Highlights at ’Photonics West’ 2013

Once again in 2013, SCHOTT Advanced Optics will present new products and highlights at ’Photonics West’ in San Francisco. ’Photonics West’ has grown to be the flagship event for companies in the photonics industry, combining the most influential conferences and trade fairs for biophotonics and biomedical optics, industrial lasers and high-power laser manufacturing, optoelectronics, microfabrication, and green photonics.

As one of the best established exhibitors is reason enough for SCHOTT Advanced Optics to present new developments and products at this show. In 2013, SCHOTT will present a selection of its existing portfolio, and will focus on three new products.

SCHOTT will present its ultra-thin glass which is available in thicknesses down to the world’s thinnest 25 micron on a roll-to-roll display, will introduce new blue filter glasses perfectly suited for the use as IR cut filter and will exhibit an impressive light weight structure piece of ZERODUR®, the wellknown zero expansion glass-ceramic.

After introducing three new CTE grades last year, ZERODUR® SPECIAL (CTE (0°C, 50°C) of 0 ± 0.010·10⁻⁶/K), ZERODUR® EXTREME (CTE (0°C, 50°C) of 0 ± 0.007·10⁻⁶/K) and ZERODUR® TAILORED, as optimized material to fit the final application temperature profile, this year an extremely light weighted ZERODUR® mirror blank for space applications is being presented. With an impressive diameter of 1200 mm and a remaining weight of only 45 kg it is the first open back mirror that achieves a light weighting factor close to 90% while the mirror performance data meets the requirements of space born missions for earth observation and space telescopes. With a rib thickness of only 2 mm and a parallel face sheet of only 8 mm, SCHOTT presents characteristics that have never been reported before.

Did we draw your attention? Then come and visit us and also listen to our product demos! Details will follow closer to the show.

Visit us at BiOS, February 2-3, 2013, booth 8218!

Visit us at PW 2013, February 5-7, 2013, booth 1600!

B 270® i product launch – new version of B 270® brings various advantages

For many years, SCHOTT has successfully delivered its B 270® crown glass to the market fulfilling its customers needs mainly for applications as cover glass or substrate.

Manufactured by a SCHOTT specific up-draw process, B 270® offers high stability with respect to solarization in combination with high transmission in the visible wavelength range. It has a fire-polished surface and high chemical stability and is available as sheets in various forms and thicknesses suitable for a variety of different market demands.

But besides delivering proven products, SCHOTT is constantly pushing its research and development efforts to enrich and adjust the portfolio in order to meet market demands and customer requirements.

This initiative and the request from the market to offer a material that is similar to B 270® but especially suited for Biotechnology and Bioscience applications were also reason for the development of B 270® i Flat Glass, a new version of B 270®.

Due to adjustments in the raw material selection and miniature but precise and targeted changes in the production process, B 270® i represents an improved version with higher chemical resistance, which makes it the perfect choice for Biotechnology applications. All other optical and physical properties are maintained. Additionally, there is no difference in the “white” appearance exhibited by B 270®. B 270® i is available in a thickness range of 0.9 mm – 1.65 mm.

If you are interested in this new material, contact us:

info.optics@us.schott.com.
Earlier this year SCHOTT Advanced Optics has introduced its well-known ZERODUR® in two new versions of the expansion class 0 with much tighter CTE tolerances: ZERODUR® SPECIAL with a CTE of \((0 \, ^\circ\text{C}, 50 \, ^\circ\text{C})\) of \(0 \pm 0.010 \cdot 10^{-6}/\text{K}\) and ZERODUR® EXTREME with a CTE of \((0 \, ^\circ\text{C}, 50 \, ^\circ\text{C})\) of \(0 \pm 0.007 \cdot 10^{-6}/\text{K}\), currently the tightest tolerance available in the market.

But even more remarkable was the introduction of ZERODUR® TAILORED, a special and unique version of ZERODUR® that can be modified to suit the temperature profile of a specific customer application. Due to the extraordinary material know-how and knowledge, the comprehensive data and the experience in the production of ZERODUR®, SCHOTT is now able to transfer the information about the final application temperature profile – which differs significantly in the various application areas such as astronomy or lithography – into the production of ZERODUR®. A targeted and precise adjustment of the processes leads to the perfect material with a specific CTE and characteristics according to the requirements arising from the final usage of the material, a „TAILORED“ product enabling even better performance for our customers.

Due to the extraordinary material know-how and knowledge, the comprehensive data and the experience in the production of ZERODUR®, SCHOTT is now able to transfer the new development has been valuable and once again confirmed our position as „Your Partner for Excellence in Optics“. We understand our materials. In course of the introduction of the material, renowned companies have already tested the material and finally specified ZERODUR® TAILORED. For any applications, where highest precision is the key, e.g. Lithography, ZERODUR® TAILORED will be of significant benefit for our customers.

If you need to have a material with zero expansion but are addressing an application which has not been considered yet, or if you would like to learn about this new material, contact us, and we will work together with you to find a solution. info.optics@us.schott.com.
Advanced Optics invites customers to Yverdon

At the end of October, SCHOTT Advanced optics invited customers from Italy, France and Switzerland to their facility at Yverdon. Customers were given the opportunity of getting to know SCHOTT Advanced Optics and their products better during the one-day event, as well as visiting the competence center for high precision optical components and coatings in Yverdon and enter into a dialog with SCHOTT. The number of participants was limited intentionally to enable in depth discussions. Besides presentations on optical components, materials and filters, competences in the field of ultra-thin glass was also presented (ultra-thin glass of only 25 μm thickness) as were new products such as CONTURAN® DARO, the anti-reflective glass with anti-fingerprint coating. The exchange of information and the discussion rounds of this one-day event were to provide insights on how to intensify customer relations and how SCHOTT could also become a “Partner for Excellence in Optics” with these contacts based on its ability of developing customized solutions. A big thank you for the active participation, and if you too are interested in a visit or a product presentation, please let us know at info.optics@us.schott.com.

Successful accreditation by the new Federal Authority DAkkS

The German Accreditation Office GmbH (DAkkS) was established on 1 January 2010 and is the national accreditation authority of the German Federal Republic, which audits, confirms and monitors the professional competence of laboratories, certification and inspection offices as an independent authority. As part of accreditation, the products, processes, services or systems are inspected with regard to their reliability in terms of quality and safety, whether they comply with minimum technical standards and comply with the requirements of applicable standards, guidelines and regulations. The assessments provided by the DAkkS are an important contribution to the quality assurance of products and services, the trust of consumers and the competitiveness of the German industry. Prior to the establishment of the DAkkS, companies, including SCHOTT AG, were accredited via private service providers, i.e. “The Association for Accreditation and Certification” (GAZ). This is no longer possible due to the establishment of the new national authority as all accreditations must be processed via the DAkkS, although the private companies may occasionally support the DAkkS.

At the beginning of this year this also meant for SCHOTT and its laboratories in the main facility in Mainz and Marienborn parting with the existing service provider GAZ and being accredited directly by the DAkkS for the first time. Any such changes are always accompanied by uncertainty, as new standards are set and the accreditors have different focal points or questions. Nonetheless, SCHOTT successfully passed its first accreditation by the DAkkS in form of a main audit on 1 June 2012 of this year. This successful first accreditation by the federal authority went without any hitches or deficiency notices, which confirms the excellent state and work procedures of our laboratories. SCHOTT is extremely proud of this result, as it is our goal to work, manufacture and deliver reliably and for the benefits of our customers. The next planned step is a service audit by the DAkkS in mid-2013.