



## **SCHOTT to present its versatile portfolio for use in medical technology at COMPAMED**

PURAVIS® optical glass fibers, RD 50® radiation shielding glass, and the world's smallest autoclavable mini high-power LED on display

*Mainz & Düsseldorf (Germany), November 4, 2014* – **The international technology group and expert on specialty glass SCHOTT will be presenting its diverse portfolio of products and components for use in medical technology at this year's COMPAMED. On the one hand, successful, registered high-quality products such as RD 50® radiation shielding glass are proving themselves on the market. On the other hand, the company continues to develop its latest innovations such as PURAVIS® lead-free step index fibers that are now also available in the version GOF120 that has an aperture angle of 120 degrees. The world's first smallest autoclavable brightness mini LED for illumination applications in dental and medical technology will be celebrating its debut at the trade fair. SCHOTT will be exhibiting at COMPAMED in Düsseldorf, Germany, from November 12 – 15 in hall 8 at booth 8b.**

The company expanded its portfolio of **environmentally-friendly PURAVIS® lead-free step index fibers** for use in illumination applications this year to include the GOF120. The new glass fiber achieves an aperture angle of up to 120° with an aperture of 0.86, and is thus ideal for use in applications in medical endoscopy for illuminating interior cavities.

“PURAVIS® GOF120's strength is that it achieves high light transmission, yet maintains that natural white light impression. This makes it much easier to make a clear diagnosis of the tissue samples that are to be examined,” explains Karen Holst, Product Manager for Optical Glass Fibers at SCHOTT Lighting and Imaging. All PURAVIS® fibers ranging from GOF70 to GOF85 and even GOF120 improve the blue light portions and transmit near UV light waves. These SCHOTT fibers are thus ideal for use in the most modern disciplines of medical technology such as fluorescence diagnostics.

The special glass formulation of the SCHOTT fibers shows a better resistance class and thus allows for higher long-term stability of PURAVIS® fibers. The fibers can therefore be repeatedly prepared for use by cleaning and autoclaving them without sacrificing any of the quality of the light transmission. Lead-free PURAVIS® glass fibers are manufactured in an environmentally-friendly manner without using arsenic and antimony. Therefore they already meet the requirements of the RoHS Directive.

[http://www.schott.com/lightingimaging/english/medical/medical-products/transmitting-light\\_puravis.html](http://www.schott.com/lightingimaging/english/medical/medical-products/transmitting-light_puravis.html)



The proven RD 50<sup>®</sup> radiation shielding glass from SCHOTT contains more than 65 percent lead oxide by weight and thus offers extremely high protection against gamma radiation and X-rays. Thanks to its high density, RD 50<sup>®</sup> achieves high X-ray beam absorption even with thin glass therefore offering a transparent alternative to other shielding materials.

RD 50<sup>®</sup> radiation shielding glass also offers an important advantage during everyday use because glass is more scratch-resistant than plastic. Radiation shielding glasses from SCHOTT provide high UV stability and are designed to offer many years of service if cared for properly. “We recently increased our stock levels on polished glass and our process capacities at our plant in Eschershausen (Lower Saxony) by investing in machines and material resources. This means we can serve the growing number of customers in a fast and efficient manner,” explains Matthias Anton, Sales Engineer for Radiation Shielding Glass at SCHOTT Advanced Optics.

SCHOTT radiation shielding glass is ideal for use in viewing windows, door and panorama glazing, or as radiation protection for doctors, nurses, and care personnel. This special purpose glass is used in buildings, X-ray rooms, operating rooms, irradiation stations, practices, material testing and research laboratories – in gloveboxes, for example. SCHOTT supplies RD 50<sup>®</sup> radiation shielding glass in all geometrical shapes up to the maximum dimensions. Upon customer request, radiation shielding glasses can be processed in a wide variety of different versions. <http://www.schott.com/architecture/german/products/radiation-shielding-glass/rd50.html>

SCHOTT is launching a new mini LED for illumination applications in dental and medical technology that outperforms all previous solutions at the exhibition in Düsseldorf. It is “tiny & tough” because it is the world’s smallest hermetic, yet fully autoclavable high-brightness LED available on the market. Thanks to its gas-tight housing that is made of inorganic material that doesn’t age, the mini LED is extremely robust and successfully withstands chemicals, corrosion and pressure – even with fluctuating temperatures. The mini LED is thus an extremely reliable light source that shines efficiently with high light quality for a long period of time. See the long version of the press release:

<http://www.schott.com/english/news/press.html?NID=com4557>

*PURAVIS<sup>®</sup> and RD 50<sup>®</sup> are registered trademarks of SCHOTT AG.*



Photo download link: <https://www.schott-pictures.net/presskit/265553.compamed2014>



Photo ID 241887 + 166111: SCHOTT expanded its portfolio of environmentally-friendly PURAVIS® lead-free step index fibers for use in illumination applications this year to include the GOF120. Photo: SCHOTT.



Photo ID 178847 + 178849: Thanks to its high density, SCHOTT's RD 50® radiation shielding glass achieves high X-ray beam absorption even with thin glass. It is a transparent alternative to other shielding materials. Photo: SCHOTT.



Photo ID 265079 + 265521: The world's smallest autoclavable High Power LED: with a diameter of less than 2mm SCHOTT's new Mini LED offers new design options for dental and medical applications. Photo: SCHOTT.

*SCHOTT is an international technology group with 130 years of experience in the areas of specialty glasses and materials and advanced technologies. SCHOTT ranks number one in the world with many of its products. Its core markets are the household appliance, pharmaceutical, electronics, optics and transportation industries. The company is strongly committed to contributing to its customers' success and making SCHOTT an important part of people's lives with high-quality products and intelligent solutions. SCHOTT is committed to managing its business in a sustainable manner and supporting its employees, society and the environment. The SCHOTT Group maintains close proximity to its customers with manufacturing and sales units in 35 countries. Its workforce of 15,400 employees generated worldwide sales of 1.84 billion euros for the 2012/2013 fiscal year. SCHOTT AG, with its headquarters in Mainz (Germany) is owned by the Carl Zeiss Foundation. [www.schott.com](http://www.schott.com)*



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