



## **Successful market introduction: high-tech PURAVIS® glass optical fibers in serial products**

### **Outstanding performance of environmentally friendly glass optical fibers from SCHOTT improves medical technology applications**

*Mainz (Germany), September 25, 2012* – The international technology company SCHOTT has now confirmed the successful launch of its PURAVIS® high-purity glass optical fibers that has been underway since the start of the year. Thanks to their superior properties over existing glass fibers, the new PURAVIS® fibers are particularly well suited for use in medical and industrial applications. In fact, the improved glass optical fibers are already being used in serial production of the new medical “universal light guide.” SCHOTT will be presenting this product range this week at the World Medtech Forum in Lucerne, Switzerland (Hall 2 / Booth A2020).

“We are extremely pleased to have been able to convince our customers of the improved product characteristics of our PURAVIS® glass optical fibers and that our new product series has been received so well,” said Karen Holst, product manager for glass optical fibers at SCHOTT Lighting & Imaging. The two PURAVIS® fibers GOF 70 and GOF 85 clearly demonstrate superior optical properties such as higher transmission of white light and greater longevity than conventional glass fibers during autoclaving or cleaning.

At the same time, SCHOTT is also working to develop its PURAVIS® glass fiber series even further. “We intend to improve our portfolio by adding a fiber with a higher aperture angle,” Holst noted in commenting on the company's plans for the future.

By using carefully selected raw ingredients, SCHOTT has been able to increase the transmission of white light by up to 10 percent by introducing PURAVIS®. Due to the lower color shift, illuminated objects retain their natural color, even if the fibers are used in long light guides. This means PURAVIS® is particularly well suited for medical applications such as endoscopy and surgical microscopy. As a result of the improved numerical aperture by 5° full angle, the



light guide captures more light from the very start. The low attenuation in the visible range results in even higher light output at the end of the light guide, which allows for smaller diameter light guides with the same output that are thus easier to install.

Another advantage of PURAVIS® is its superior longevity achieved by improved chemical stability and low solarization, which is particularly important for medical reprocessing like autoclaving or cleaning, but also for outdoor applications. Transmission loss of PURAVIS® after 100 autoclaving cycles has been greatly reduced – by up to 70% compared to previous fibers.

The innovative high-tech fiber is lead-free and manufactured using a completely new, environmentally friendly process that also avoids the use of arsenic and antimony as refining agents. The production process is thus consistent with the company's commitment to the environment. In fact, any product that is equipped with PURAVIS® already complies with the EU directives RoHS and REACH today.

*3,114 characters including empty spaces*

Download link that contains photographs of PURAVIS® in printable quality:

<http://www.schott-pictures.net/presskit/141847.puravis>



Photo ID: 141121. SCHOTT PURAVIS® glass optical fibers: Technological advances always open up new application opportunities that have never been explored before. For example, fluorescence-based applications in the area of medical diagnostics and microscopy are both possible due to improved transmission in the near UV range. Photo: SCHOTT.



## About SCHOTT

*SCHOTT is an international technology group with more than 125 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, solar power, pharmaceuticals, electronics, optics, transportation and architecture 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 all major markets. Its workforce of around 17,500 employees generated worldwide sales of approximately 2.9 billion euros for the 2009/2010 fiscal year. SCHOTT AG, with its headquarters in Mainz (Germany) is owned by the Carl Zeiss Foundation.*

*The Lighting and Imaging of SCHOTT AG offers a wide range of lighting and image transmission solutions on the basis of fiber optics and LED technology.*

## Contact:

SCHOTT AG  
Corporate Public Relations  
Dr. Haike Frank  
Hattenbergstr. 10,  
55122 Mainz, Germany  
Phone: +49 6131 66 4088  
E-mail: [haike.frank@schott.com](mailto:haike.frank@schott.com)  
Internet: [www.schott.com](http://www.schott.com)