



Member of LEONI Group

**j-fiber is one of the worldwide leading suppliers of high-performance optical fibers and preform designs addressing advanced tele-communications and specialty industry markets.**

**With our new fused silica materials offering we also support advanced optics, laser and lithography applications.**

**We invest in long-term customer partnerships, innovative product technologies, and continuous enhancement of our manufacturing processes to make our clients gain maximum benefits from sourcing j-fiber products.**

**To learn more about how j-fiber can best serve you, please visit us at:**

**LASER World of PHOTONICS 2011**

**May 23 thru 26**

**Messe Munich, Germany**

**Booth B2.247**

**or at**

**[www.j-fiber.com](http://www.j-fiber.com)**

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## **j-fiber at LASER World of PHOTONICS 2011**

LASER World of PHOTONICS 2011 show highlights and company news:

### **Fused silica and solarization resistant Multimode fibers from the UV specialist**

**SQ Fused silica for optics, laser, lithography and fiber optics** j-fiber's new offering is the material of choice for best performance in advanced optics and photonics technologies. After successful fused silica process implementation we now address semi-finished parts manufacturers and end-users with silica material of highest purity and with best optical and physical properties.

*Learn more about how your optics, laser, lithography or preform and fiber manufacturing can benefit from sourcing j-fiber SQ materials*

**j-Ultrasol solarization resistant Multimode fiber** j-fiber's step index Multimode fiber with acknowledged superior transmission stability and life time performance in <400 nm wavelengths operations is now available in larger core sizes and with additional polyimide coating option.

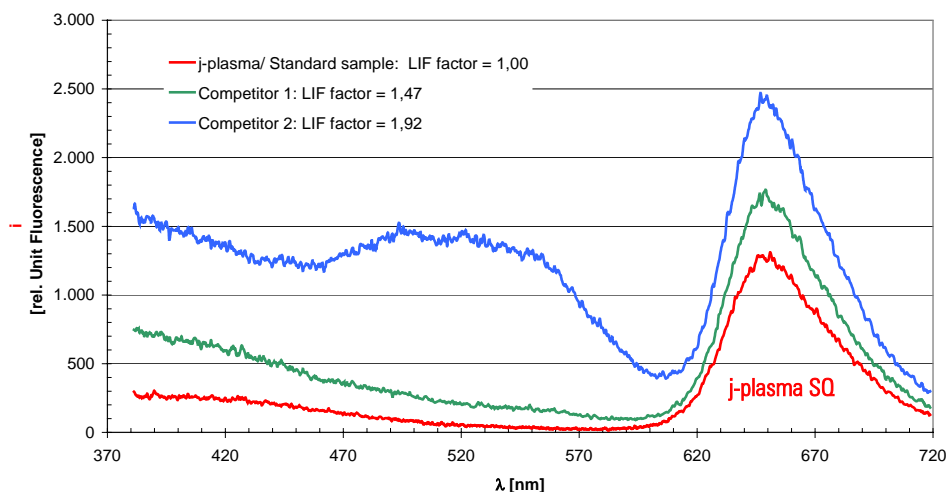
*Learn more about how our new j-Ultrasol offering can now serve an even larger range of your spectroscopy, medical or industry applications*

### **Our LASER World of PHOTONICS 2011 highlights in detail**

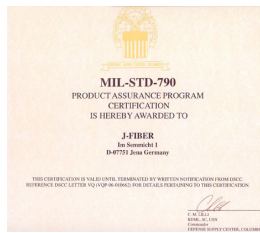
#### **New: SQ fused silica for optics, laser, lithography and fiber optics**

With SQ, j-fiber now offers its own fused silica, following a long tradition of inventing and using fused silica in Jena, Germany. j-fiber SQ fused silica features the quality and properties that high-performance optics and photonics technologies depend upon. It is completely free of bubbles and inclusions, striations and striae. This material shows high refractive index homogeneity and low fluorescence under excimer laser radiation as well as maximum stability under thermal conditions and stress.

*SQ shows a very low red fluorescence compared to other fused silica materials*



**Certified top quality,  
"green" fiber products**



MIL-STD-790 Certificate  
US Department of Defence



DIN ISO 9001 and 14001



EMAS Certificate for  
"green" fiber products and  
processes



TÜV technical certificate for  
safe and reliable products

SQ therefore is the first choice material for challenging optical applications such as excimer laser optics and beam deliveries, DUV optics components, standard optics (VIS and NIR), UV-rods, preforms and optical fibers, technical applications (silica vessels, windows or micro-/lithographic applications (stepper lenses, photo mask blanks, wafer, and litho optics).

*Customized quality and parts configuration:* SQ is recommended for semi-finished parts in round or rectangular shapes up to 6 inches in size (standard) and is also available in larger diameters and block forms. Customers can choose from different grades and excimer subgrades quality levels in accordance with their individual application or specification.



Please ask for our SQ datasheets or visit [www.j-fiber.com](http://www.j-fiber.com) for more information

**j-Ultrasol – the solarization resistant fiber with unmatched transmission stability now with new core size and coating options**

With j-Ultrasol, j-fiber has developed a solarization resistant fiber for long life, high transmission stability under UV exposure for applications in the wavelength operation range below 400 nm and specifically in the critical wavelength range below 230 nm.

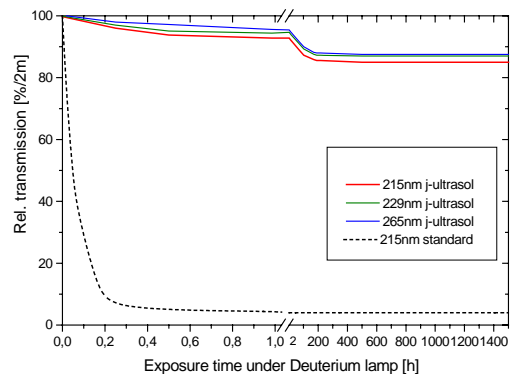
j-Ultrasol shows excellent short and long-term stability results: 96% transmission stability at 215 nm under short-term (< 24 h) UV exposure and long-term high transmission stability (< 1500 h) at a steady 86% level.

j-Ultrasol is now available with **polyimide coating** and in **various core sizes**. The silica core/fluorine-doped silica clad Step Index Multimode fiber can now serve even more of your challenging spectroscopy, medical or industry applications.

*j-Ultrasol solarization resistant fiber*



*j-Ultrasol with unsurpassed transmission stability*



Please ask for our j-Ultrasol datasheets or visit [www.j-fiber.com](http://www.j-fiber.com) for more information

**Please feel welcome for individual discussions with our j-fiber experts who will be available for you at LASER World of PHOTONICS 2011, Booth No.: B2.247**