Member of LEONI Group

j-fiber News at PHOTONICS West 2013

j-fiber & LEONI Fiber Optics now jointly serve clients in specialty markets with a most complete specialty fiber optics solutions range comprising

- high-purity optics materials for optics and fiber optics markets
- innovative waveguide products for advanced optics and photonics markets
- customized terminated specialty fiber solutions for OEM markets

We thereby combine our value-chains, the volume manufacturing capacities, our product specialist skills as well as our market specific know-how and client support centers to address our clients' demands with complete solutions or best-performance products.

You are welcome to visit the LEONI Fiber Optics booth #4822 in North Hall

j-fiber & LEONI Fiber Optics

Jointly serving specialty fiber markets with standard and customized:

OPTICS MATERIALS

WAVEGUIDE PRODUCTS

OEM SOLUTIONS

PHOTONICS West highlights

Optical Materials

For Optics: SQ Fused Silica

For Fiber Optics: Step & Graded Index Preforms; Highly F-doped Tubes

Waveguide Products

j-BBF Broadband Step Index Fiber

j-IGR Image Guide Rods

j-NCS Non-circular Shape Fibers

j-Ultrasol Solarization Resistant Fibers

SQ High Purity Fused Silica

Completely free of bubbles, inclusions, striations and striae

High refractive index homogeneity

Low fluorescence under excimer laser radiation

Maximum stability under thermal conditions and stress

j-FST Fluorine-doped Tubes

Highest Fluorine concentrations

For specialty fiber and preform manufacturing

Customized tube designs available

Step index preforms

Fluorine and Germanium doped

Various configuration and specification options

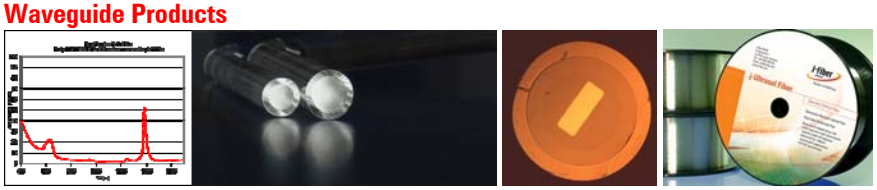
Best performance in UV, IR, NIR wavelength ranges

j-fiber product highlights at PHOTONICS West 2013

Optical Materials

Preforms | Fluorine-doped Tubes | SQ for Optics: components, blanks

Waveguide Products



Broadband Step Index Fiber | Image Guide Rods | Non-circular shape fibers | Solarization Resistant Fiber

SQ Fused Silica for optics, laser, lithography and fiber optics

SQ 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 as well as technical applications (silica vessels, windows or micro-/lithographic applications such as stepper lenses, photo mask blanks, wafer, and litho optics). We 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

Uniformly Fluorine doped and customized tubes

j-FST tubes feature highest fluorine concentrations and have been developed for the manufacturing of special fiber designs as substrate or jacketing tube. They are the ideal material for overcladding processes in preform manufacturing and serve as substrate materials in MCVD processes or as fluorine doped capillaries used for specialty fiber designs. Customized tube designs with individual specification in double or multi step refraction index profiles are available.

Learn more about j-FST tubes address your preform or specialty fiber making requirements

Step index preforms

Fluorine and Germanium doped step index preforms with various specification and configuration options, such as custom core diameter and non-circular shapes, high or low aperture, single, double or multi-layer refraction index profiles or wavelength optimization. With best performance during fiber draw they provide for excellent diameter control.

Learn more about our SI preforms and tell us about your specific requirements

NEW! j-BBF Broadband fiber

Broad wavelength spectrum from 200 nm to 2100 nm

Best performance from UV to NIR

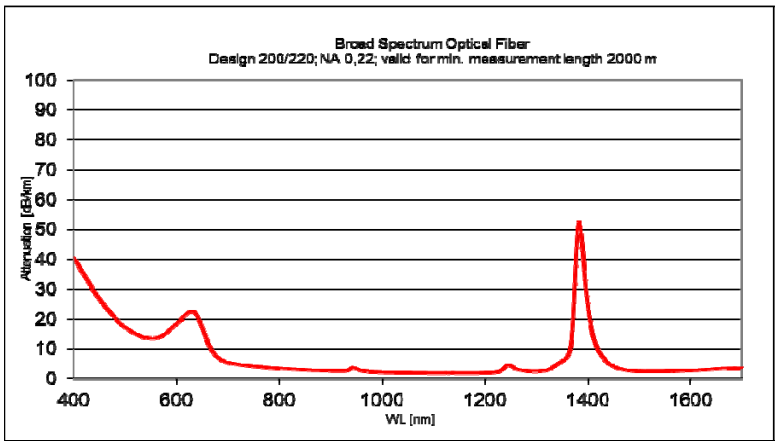
Available fiber sizes from 50μm up to 1000μm core diameter

Solarization Resistant Fiber for long fiber life under UV exposure

Best for use in sensing and spectroscopy applications

j-BBF new Broadband Step Index Fiber

j-fiber's latest fiber innovation allows for most flexible use in wide spectral applications. The fiber features best attenuation values over a wavelength range from 200nm to 2100nm. It thereby shows the UV performance of a high-OH fiber as well as the NIR performance of a low-OH fiber.



NEW! j-IGR Image Guide Rods

High-purity fused silica based

For high-resolution image and light transmission

Up to 10,000 pixels

For temperatures up to 1,000°C

Customized designs

j-IGR Image Guide Rods

j-IGR Image Guide Rods, based on j-plasma high-purity fused silica materials, for high-resolution image and light transmission in medical, spectroscopy and industry applications: Highest transmission performance is thereby achieved by combining a high number of picture elements (up to 10,000 pixels) with tight packaging density of the pixels. j-IGR is optimized for best image and light guiding performance in the specific client application UV/VIS or VIS/IR wavelength range and in challenging applications with temperatures up to 1,000°C. j-IGR rods are available in standard or customized designs to meet specific lengths, diameters and bending requirements.

Learn more about our new j-IGR Image Guide product line and customized design options

j-NCS Non-circular Shape Fibers

Non-circular cross sections of core and/or cladding

Pure silica core / Fluorine doped clad, step index design

Optimization for UV/VIS, VIS/NIR and VIS/IR wavelengths applications

j-NCS Non-circular Shape Fibers

The series of step index (FSI) multimode fibers with non-circular cross sections of core and/or cladding and a fiber design that consists of an undoped fused silica core and a fluorine doped silica cladding. Developed for special applications, mainly in laser technology, high power transmission, imaging, spectroscopy, and medical applications, j-NCS fibers are available with a variety of options for customization. Key fiber characteristics such as performance at UV/VIS, VIS/NIR and VIS/IR wavelengths are optimized by specifying the OH content of the core glass. Various fiber designs are available defined by cladding thickness, cladding structure (single or double layer cladding) and NA options.

Learn more about how j-NCS fibers can contribute to your product development and use

j-Ultrasol Solarization Resistant Fiber

For long life, high transmission stability under UV exposure

Best for critical < 230 nm range

Highest long-term transmission stability of 86% at 215nm

j-Ultrasol Solarization Resistant Fiber

j-Ultrasol is a fluorine-doped step index Multimode fiber featuring the best combination of high relative transmission and transmission stability providing for maximum fiber life under UV exposure. j-Ultrasol best supports challenging spectroscopy, medical or industry applications in the 200 - 800nm wavelengths range and is specifically suited for use in the critical sub 230nm range. j-Ultrasol shows excellent transmission stability results of 96% in short term and steady 86% under long term exposure at 215nm.

Learn more about j-Ultrasol to enhance life time and use of your spectroscopy, medical or industry devices