MD&M West 2025: CeramOptec shows customer-specific optical fibers and probes for laser medicine and spectroscopy

Comprehensive support for therapeutic and diagnostic procedures

CeramOptec trade fair appearance at MD&M West 2025 will highlight customized optical fiber and probes for laser medicine, along with fiber cables and bundles for spectroscopic applications. The company will also share insights into its tailored fiber configurations.

Bonn/Līvāni, January 29, 2025 – CeramOptec, specialist in optical fibers, will showcase customized optical fiber and probes for therapeutic laser applications, as well as solutions for spectroscopic analytics and diagnostics, at MD&M West 2025 (February 4-6, Anaheim, California, German Pavilion, Booth 3266).
Their product range includes radially emitting fibers with fused or bonded end caps for endovenous laser therapy (EVLT), bare fibers (holmium fibers) for tissue ablation and lithotripsy, and fiber with lateral radiation emission for tissue coagulation, vaporization, and resection.
CeramOptec will also feature diffusing fibers, designed for both low and high-power applications, with active fiber lengths from 5 to 50 millimeters, made using a patent-pending manufacturing process. These fibers are ideal for photodynamic therapy (PDT), interstitial laser therapy, and laser-induced thermotherapy (LITT).

Fibers and bundles for Raman and infrared spectroscopy and mass spectrometry

CeramOptec offers a broad selection of high-quality fiber cables and bundles tailored for spectroscopic analysis and diagnostics. These include, for instance, special fiber core geometries designed to enhance coupling efficiency and light transmission, ideal for quantitative sample analysis such as measuring glucose levels in blood or urine.

The portfolio also includes fibers for photo-luminescence spectroscopy, used in applications like tumor cell identification, which can be integrated into custom handpieces or endoscopes. For mass spectrometric analyses in proteomics and metabolomics, CeramOptec provides use-specific bundles capable of withstanding high temperature fluctuations, as well as chemical and mechanical stress.

Additionally, solarization-resistant optical fibers, which maintain performance under UV light without aging effects, will be featured at the trade fair booth. These are perfect for fiber and bundle configurations in UV spectroscopy.

Customized configuration from the preform to the finished fiber & assembly

Visitors to the Anaheim booth can explore CeramOptec's customized fiber configurations, including fibers with biocompatible materials, abrasion-resistant markings, and ready-to-use cables and bundles. Additional details about CeramOptec and the showcased optical fibers are available at www.ceramoptec.com.

About CeramOptec

CeramOptec specializes in manufacturing multimode optical fibers made from quartz glass and assembling custom fiber cables and bundles. Founded in Bonn, in 1988, the company is now a subsidiary of Biolitec AG, a global leader in laser-based medical technologies.
With subsidiaries in Canada and China, plus distribution partners in France, India, Israel, Japan, and Korea, CeramOptec has a strong presence across North America, Europe and Asia. Its product portfolio includes preforms, fibers, cables, and assemblies designed for various applications, such as industrial and medical laser systems, semiconductor manufacturing, aerospace sensors, and spectroscopic uses in astronomy and the chemical industry.

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