

Autoclavable Optical Coatings - No Negative Impact from Humidity, Temperature and Vacuum During Disinfection

LASER COMPONENTS is proud to announce yet another product for medical technology: laser optics with coatings that withstand countless sterilization cycles in an autoclave over the long term. To this end, the company worked with universities and other companies to develop a special coating process. Only a few manufacturers in the world are capable of producing this type of optics.

Disinfection in an autoclave is a widely used sterilization process in medical practices and hospitals. In order to kill microorganisms, medical instruments and laboratory utensils are exposed to a combination of high pressure, high temperatures and moisture in a pressure-tight vessel. These extreme environmental conditions cause conventional coatings to crack or detach from the substrate. Their optical properties quickly deteriorate, which can result in disturbing double images. Therefore, the optics would have to be replaced very often.

As part of the STAR (Stable Anti-Reflective Coatings for Medical Technology) research project, LASER COMPONENTS and other participants have developed a process for resistant coatings. Measurements show that the original reflectivity is retained even after several hundred autoclave cycles.

Learn more about autoclavable optical coatings: <https://www.lasercomponents.com/us/photonics-portal/trends-and-innovation/innovations/autoclavable-optical-coatings/>

The Company

Since its establishment in 1982, LASER COMPONENTS has always defined itself as a solution provider for optical and optoelectronic technologies. The customer spectrum of the owner-managed family company covers all industries that utilize light. With more than 260 employees at seven locations on two continents, the company group generates around 60 percent of its sales with products from its own production including laser optics, avalanche photodiodes, pulsed laser diodes, InGaAs Detectors, Lead Salt Detectors, pyroelectric detectors, laser modules, photon counters and fiber optic assemblies.

Media Contact:

Matt Robinson
General Manager
LASER COMPONENTS USA, Inc.
Phone: +1 (603) 821 - 7040
Email: robinson@laser-components.com

###