

Simple cleanliness inspection of metal parts in medical technology

Product: SITA CleanoSpector
Industry: Medical technology
Measuring principle: Fluorescence measurement

High quality is essential for reliable functionality and safe use of medical products. This is particularly evident with products such as implants, endoscopes or cannulas that come into contact with the human organism. In order to achieve the high quality of the products, there are high demands on the cleaning result before cleanliness-sensitive manufacturing processes and on the cleaned end product.



Figure 1: 100% cleanliness for medical technology products such as implants

Manufacturing aids such as oils, cooling lubricants, corrosion protection and drawing aids are used in the mechanical production of metal parts in medical technology. Subsequent production steps, which also require a high level of cleanliness to ensure high quality, are severely disrupted by residual contamination. These include bonding and soldering processes in endoscope production as well as surface finishing or coating processes for implants and medical instruments.



Figure 2: Simple and reliable detection of contamination in the production process for high-quality medical instruments.

● SITA CleanoSpector

The SITA CleanoSpector fluorescence measuring device is used to detect filmic contaminants such as oils, greases, cooling lubricants and release agents. With the SITA CleanoSpector, the cleanliness of the parts can be checked quickly and easily, thus ensuring consistently high cleaning and product quality.

● Process monitoring and documentation

Fluorescence measurement enables reliable monitoring and documentation of part cleanliness after cleaning. In addition, as an initial check before cleaning, it can ensure that the degree of contamination of the parts remains within the permissible limits for which the cleaning process was specified and designed. Parameter deviations and cleaning system faults can be recognised in time and process reliability can be significantly increased.



Figure 3: Mobile measuring device SITA CleanoSpector

The mobile SITA CleanoSpector is easy to use and a reliable measuring device for the inspection of parts cleanliness in medical technology. Due to its uncomplicated handling and the low measurement deviations, it is also suitable for stationary use in the laboratory as well as for mobile use directly at the process.