



SGS INSTITUT FRESENIUS GmbH

Medical Devices

Your leading partner for analytical services

INSTITUT
FRESENIUS

SGS



Analytics for medical device industry

The development of medical devices requires high demands on materials and processes. As material failure and contamination can have serious consequences for patients, doctors and consumers, the legislator has defined high requirements for medical devices. For many years, SGS has been working on methods to support you in safeguarding your products.

Regardless of your medical device or target market, we support you in complying with the relevant quality and safety regulations. Non-mandatory, brand- and customer-specific quality standards can also be realized. Our independent testing is key to your confidence.

Your requirements – our competences

- Analysis of material composition
- Thin layers analyses
- Microstructure investigations
- Surface inspections for particles and cleanliness
- Foreign material identification
- Failure analysis (fracture, fatigue, corrosion etc.)
- Analysis of process chemicals
- Material resistance tests
- VOC testing – outgassing of volatile organic substances
- Biological assessment of medical devices according to DIN EN ISO 10993-18
- Breathing apparatus tests according to DIN ISO 18562-2 and -3
- Vial de-lamination study according to USP 1660

Our analytical methods

- Scanning electron microscopy (SEM)
- Energy dispersive X-ray spectroscopy (EDX)
- X-ray photoelectron spectroscopy (XPS)
- Time-of-Flight mass spectrometry (ToF-SIMS)
- FT-IR/RAMAN Spectroscopy/Microscopy
- X-Ray diffraction (XRD)
- Inductively coupled plasma optical emission spectrometry/ mass spectrometry (ICP-OES/MS)
- Spark emission spectroscopy (F-OES)
- Ion chromatography (IC)
- Thermal analysis methods (DSC, TG, STA)
- Gas chromatography with mass spectrometry (GC-MS)
- Metallography, Digital Microscopy
- Scanning Acoustic Microscopy (SAM)



ABOUT US

Our roots are found in microelectronics analysis. For over 40 years, our site has provided expertise in materials testing, chemical analysis, and particle testing for a diverse array of clients. As part of the SGS network with over 2,700 locations worldwide, we offer you services from a single source and guarantee independent testing.

Our test results support you in complying with legal requirements and help you to improve your processes and products.

Benefit from our many years of professionalism and expertise! Contact us and let us support your project's needs.

YOUR CONTACT

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WHEN YOU NEED TO BE SURE

