



TECHNICAL CLEANLINESS

IN FASTENING SYSTEMS

[Technical product data sheet](#)

RIBE® – TECHNICAL CLEANLINESS

“Clean advantages...”

▶ TECHNICAL CLEANLINESS FOR YOUR APPLICATIONS

Technical cleanliness, sometimes abbreviated as “TechClean” is a key quality feature of our products, as even the smallest contaminants on the surface of a product can lead to malfunctions and system impairments. These microscopic particles are generated during every manufacturing process and must be continuously monitored throughout the production chain. For electronic and hydraulic components, a meticulously cleaned surface is of utmost importance to prevent disruptions or even system failures. We have developed specialized manufacturing processes that are continuously monitored using state-of-the-art analytical technology to ensure that our products reliably meet your technical cleanliness requirements.

▶ RIBE® OFFERS CLEAN ADVANTAGES

Our consultation service focuses on finding the best possible solutions for your specific requirements. We are committed to ensuring that assembly parameters, such as friction coefficients, are maintained through our coordinated surface systems. Our extensive range of equipment gives us the flexibility to conduct technical cleanliness analyses tailored to your specific needs.

Products that have undergone our technical cleanliness process are distinguished by significantly improved quality, reducing the risk of failures in functional and safety-critical components. The packaging solutions integrated into the TechClean process enable both antistatic inner packaging and vacuum packaging to prevent subsequent particle contamination during transport.

Our goal is to offer premium quality products that meet the highest standards of technical cleanliness. We always aim to exceed your expectations and provide you with solutions you can rely on.

RIBE®



▶ THE RIBE® TECHCLEAN PROCESS

Application Consulting

- Customer-specific requirements analysis:
 - Coating system
 - Threshold cleanliness limits
 - Assembly characteristics
 - Packaging
- Customer consultation and development of a solution proposal based on the requirements profile

Production

- Fine cleaning of items using specialized manufacturing processes (cleaning processes, cleanroom)
- Optional lubricant coating after fine cleaning process
- Continuous process monitoring
- Customer-specific cleanliness inspections using state-of-the-art analysis technology



Technical Cleanliness Analysis in the Testing Laboratory

- Optical analysis of particle size distribution
- Gravimetric analysis of residual weight
- Classification of particles into metallic and non-metallic particles
- Standard-compliant extraction methods:
 - Spray extraction
 - Rinse extraction
 - Ultrasonic extraction
- Decay measurements

Handling and Packaging

- Process-integrated packaging
- Customer-specific outer packaging
- Vacuum packaging available – no subsequent particle contamination during transport
- Cleanliness-promoting antistatic inner packaging available (ESD-bags)
- Packaging in a cleanroom to meet even the strictest standards
- Daily baseline measurement
- Detailed test documentation

▶ CONTACT US FOR CUSTOMER-SPECIFIC CONSULTING

Your Contact

Büsa Culha

Email: buesra.culha@ribe.de

Phone: +49 (0) 91 22 87 14 45