

# Deutsche Akkreditierungsstelle GmbH

## Annex to the Accreditation Certificate D-PL-11311-01-00 according to DIN EN ISO/IEC 17025:2018

Valid from: 10.12.2020

Date of issue: 13.01.2021

Holder of certificate:

**RJL Micro und Analytic GmbH  
Im Entenfang 11, 76689 Karlsdorf-Neuthard**

Tests in the fields:

**Determination of technical cleanliness of structural components and elements, automatic particle analytics (number, size and chemical composition) by means of computerised SEM scanning electron microscopy and Energy-dispersive X-ray spectroscopy - EDX - element analyse, X-ray micro tomography and digital radiography**

**Within the given testing field marked with \*, the testing laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, the free choice of standard or equivalent testing methods.**

**The listed testing methods are exemplary. The testing laboratory maintains a current list of all testing methods within the flexible scope of accreditation.**

*The management system requirements in DIN EN ISO/IEC 17025 are written in language relevant to operations of testing laboratories and operate generally in accordance with the principles of DIN EN ISO 9001.*

*The certificate together with its annex reflects the status at the time of the date of issue. The current status of the scope of accreditation can be found in the database of accredited bodies of Deutsche Akkreditierungsstelle GmbH.  
<https://www.dakks.de/en/content/accredited-bodies-dakks>*

**Annex to the accreditation certificate D-PL-11311-01-00**

**1 Cleanliness Analysis of Components and Systems \***

ISO 16232 Road vehicles - Cleanliness of components and systems  
2018-12

VDA 19 Teil 1 Inspection of Technical Cleanliness - Particulate Contamination of  
2015-03 Functionally Relevant Automotive Components

**2 Automated Analysis of Particles (Number, Size and Chemical Composition) by means of Computerised Scanning Electron Microscopy (SEM) and Elemental Analysis (EDX)**

In-house method Microscopic analysis of surfaces and particle membranes by means of  
PSEM-AFS-01 scanning electron microscopy (SEM) and elemental analysis (EDX)  
2006-01 equipped with integrated analysis software

**3 X-Ray Micro Computed Tomography and Digital X-Ray Imaging**

In-house method X-ray micro computed tomography and digital X-ray imaging for  
MCT-DXR visualisation of internal and external structures of materials,  
2014-09 components and products

**Abbreviations used:**

ISO	International Organization for Standardization
VDA	Verband der Automobilindustrie (German Association of the Automotive Industry)
In-house method	In-house test method of RJL Micro und Analytic GmbH