DAkkS
Deutsche
Akkreditierungsstelle

Deutsche Akkreditierungsstelle GmbH

Entrusted according to Section 8 subsection 1 AkkStelleG in connection with Section 1 subsection 1 AkkStelleGBV
Signatory to the Multilateral Agreements of EA, ILAC and IAF for Mutual Recognition

Accreditation

The Deutsche Akkreditierungsstelle GmbH attests that the testing laboratory

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

is competent under the terms of DIN EN ISO/IEC 17025:2018 to carry out tests in the following 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

The accreditation certificate shall only apply in connection with the notice of accreditation of 10.12.2020 with the accreditation number D-PL-11311-01. It comprises the cover sheet, the reverse side of the cover sheet and the following annex with a total of 2 pages.

Registration number of the certificate: **D-PL-11311-01-00**

Frankfurt am Main, 10.12.2020	Dipl.-Ing. (FH) Ralf Egner Head of Division	Translation issued: 10.12.2020	Head of Division

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

This document is a translation. The definitive version is the original German accreditation certificate.

See notes overleaf.

Deutsche Akkreditierungsstelle GmbH

Standort Berlin
Spittelmarkt 10
10117 Berlin

Standort Frankfurt am Main
Europa-Allee 52
60327 Frankfurt am Main

Standort Braunschweig
Bundesallee 100
38116 Braunschweig

The accreditation was granted pursuant to the Act on the Accreditation Body (AkkStelleG) and the Regulation (EC) No 765/2008 of the European Parliament and of the Council setting out the requirements for accreditation and market surveillance relating to the marketing of products. DAkkS is a signatory to the Multilateral Agreements for Mutual Recognition of the European co-operation for Accreditation (EA), International Accreditation Forum (IAF) and International Laboratory Accreditation Co-operation (ILAC). The signatories to these agreements recognise each other's accreditations.

The up-to-date state of membership can be retrieved from the following websites:
EA: www.european-accreditation.org
ILAC: www.ilac.org
IAF: www.iaf.nu

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

1 Cleanliness Analysis of Components and Systems *

ISO 16232 2018-12	Road vehicles - Cleanliness of components and systems
VDA 19 Teil 1 2015-03	Inspection of Technical Cleanliness - Particulate Contamination of 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 PSEM-AFS-01 2006-01	Microscopic analysis of surfaces and particle membranes by means of scanning electron microscopy (SEM) and elemental analysis (EDX) equipped with integrated analysis software

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

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