Deutsche Akkreditierungsstelle

Annex to the Accreditation Certificate D-PL-18040-01-01 according to DIN EN ISO/IEC 17025:2018

Valid from: **03.07.2026**

Date of issue: 03.07.2026

This annex is part of the Accreditation Certificate D-PL-18040-01-00.

Holder of the Accreditation Certificate:

CleanControlling GmbH
Gehrenstraße 11 a, 78576 Emmingen-Liptingen

with the locations

CleanControlling GmbH
Technical Cleanliness Laboratory
Gehrenstraße 11 a, 78576 Emmingen-Liptingen

CleanControlling GmbH
Kellhofstraße 6, 78187 Geisingen-Leipferdingen

CleanControlling GmbH
Lockwitzgrund 100, 01257 Dresden

The testing laboratory meets the requirements of DIN EN ISO/IEC 17025:2018 to carry out the conformity assessment activities listed in this annex. The testing laboratory meets additional legal and normative requirements, if applicable, including those in relevant sectoral schemes, provided that these are explicitly confirmed below.

The management system requirements of DIN EN ISO/IEC 17025 are written in the language relevant to the operations of testing laboratories and they conform to the principles of DIN EN ISO 9001.

This annex to the certificate was issued by the Deutsche Akkreditierungsstelle GmbH (DAkkS) and is digitally sealed.
This annex to the certificate is only valid together with the written accreditation certificate and reflects the status as indicated by the date of issue. The current status of any valid and surveyed accreditation can be found in the directory of accredited bodies maintained by Deutsche Akkreditierungsstelle GmbH (www.dakks.de).

Abbreviations used: see last page

Examinations in the following areas:

Investigations into the technical cleanliness of metallic and non-metallic materials, components, systems and fluids by means of the test methods of extraction, gravimetry, microscopic analysis, infrared spectroscopy and ion chromatography, scanning electron microscopy with energy-dispersive X-ray spectroscopy; Determination of filmic impurities using microbalances

Flexible scope of accreditation:

Within the marked scopes of testing, the testing laboratory is permitted, without prior information and consent of the DAkkS, to

[Flex B] permitted the free choice of standardized testing methods or testing methods equivalent to them.

The testing methods listed are exemplary. The testing laboratory maintains an up-to-date list of all testing methods within the flexible scope of accreditation. This list is publicly available on the testing laboratory's website.

The testing methods are marked with the location symbols listed below, indicating where they are performed:

D = Dresden E = Emmingen – Liptingen G = Geisingen-Leipferdingen

Investigations of components in the field of technical cleanliness by means of extraction, gravimetry or microscopy

ISO 16232 [Flex B] 2018-12	Road Vehicles - Cleanliness of Components for Fluid Systems (Exception: *Analysis Method 9.3 - 9.4*)	E, D
ISO 4405 [Flex B] 2022-07	Fluid Power - Pressure Fluid Contamination - Gravimetric Method for Determining Solid Contamination	E, D
ISO 4406 [Flex B] 2021-01	Fluid Power - Hydraulic Pressure Fluids - Number Key for the Degree of Contamination by Solid Particles	E
ISO 4407 [Flex B] 2002-04	Fluid power - Contamination of the pressurized fluid - Determination of solid contamination with the microscopic counting method	E
VDA Volume 19.1 [Flex B] 2015	Technical Cleanliness Testing - Particle Contamination of Functionally Relevant Automotive Parts (Exception: *Analysis method 8.3 - 8.4*)	E, D
AA 25-118	Suction extraction based on VDA19.1 (2015) and	E, D

2025-05	ISO 16232 (2018)	
VDI Guideline 2083 Part 23 2022-12	Cleanroom Technology – Extractable Soluble Residue Testing – As-Is Method and Limit Value Testing	E

Investigation and identification of unknown substances in organic and inorganic materials by infrared spectroscopy (FTIR)

ASTM E 1252 [Flex B] 2021	General methods of qualitative infrared analysis	E
VDA Band 19.1 [Flex B] 2015	Technical Cleanliness Testing - Particle Contamination of Functionally Relevant Automotive Parts (Chapter 8.3.5 IR - Infrared Spectroscopy)	E
ISO 16232 [Flex B] 2018-12	Road Vehicles - Cleanliness of Components and Systems (Chapter 9.3.5 IR - Infrared Spectroscopy)	E

Investigations of components in the field of technical cleanliness using ion chromatography

IPC-TM-650 2.3.25 [Flex B] 2012-11	Detection and Measurement of Ionizable Surface Contaminants by Resistivity of Solvent Extract (ROSE)	E
IPC-TM-650 2.3.25.1 [Flex B] 2000-10	Ionic Cleanliness Testing of Bare PWBs	E
IPC-TM-650 2.3.28 [Flex B] 2012-11	Ionic Analysis of Circuit Boards, Ion Chromatography Method	E
IPC-TM-650 2.3.28.2 [Flex B] 2009-12	Bare Printed Board Cleanliness by Ion Chromatography	E
AA 25-116 2021-04	Determination of residual dirt in heat exchangers	E

Material characterization using energy dispersive X-ray spectroscopy (EDX)

VDA Band 19.1 [Flex B] 2015	Technical cleanliness testing - particle contamination of function-relevant automotive parts (Chapter 8.3.2 REM/EDX)	E, G
ISO 16232 [Flex B] 2018-12	Road Vehicles - Cleanliness of Components and Systems (Chapter 9.3.2 REM/EDX)	E, G

Determination of Extractable Soluble Residues by QCM

VDI Guideline 2083 Part 23 2022-12	Cleanroom Technology - Testing of Extractable Soluble Residues - Method for as-is determination and limit value testing	E

Abbreviations used:

POOP	Work Instructions/House Procedures of CleanControlling GmbH
ASTM	American Society for Testing and Materials
DIN	German Institute for Standardization e. V.
EN	European Standard
IEC	International Electrotechnical Commission
IPC	Standardization organization in the electrical industry
ISO	International Organization for Standardization
VDA	Association of the Automotive Industry
VDI	Association of German Engineers
QCM	Quartz Crystal Microbalance