

Accreditation



The Deutsche Akkreditierungsstelle attests with this **Accreditation Certificate** that the testing laboratory

ContiTech Luftfedersysteme GmbH
Continental-Plaza 1, 30175 Hannover

meets the requirements according to DIN EN ISO/IEC 17025:2018 for the conformity assessment activities listed in the annex to this certificate. This includes additional existing legal and normative requirements for the testing laboratory, including those in relevant sectoral schemes, provided they are explicitly confirmed in the annex to this certificate.

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 accreditation was issued in accordance with Art. 5 Para. 1 Sentence 2 of Regulation (EC) 765/2008, after an accreditation procedure was carried out in compliance with the minimum requirements of DIN EN ISO/IEC 17011 and on the basis of a review and decision of the appointed accreditation committees.

This accreditation certificate only applies in connection with the notices of 03.03.2025 with accreditation number D-PL-11238-01.


It consists of this cover sheet, the reverse side of the cover sheet and the following annex with a total of 5 pages.

Registration number of the accreditation certificate: **D-PL-11238-01-00**

Berlin, 03.03.2025

Dr.-Ing. Ernst Ulrich
Head of Technical Unit

Translation issued:
03.03.2025


Dr.-Ing. Ernst Ulrich
Head of Technical Unit

The certificate together with the annex reflects the status as indicated by the date of issue. The current status of any given scope of accreditation can be found in the directory of accredited bodies maintained by Deutsche Akkreditierungsstelle GmbH (www.dakks.de).

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

See notes overleaf

Deutsche Akkreditierungsstelle GmbH

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60327 Frankfurt am Main

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38116 Braunschweig

The Deutsche Akkreditierungsstelle GmbH (DAkkS) is the entrusted national accreditation body of the Federal Republic of Germany according to § 8 section 1 AkkStelleG in conjunction with § 1 section 1 AkkStelleGBV. DAkkS is designated as the national accreditation authority by Germany according to Art. 4 Para. 4 of Regulation (EC) 765/2008 and clause 4.7 of DIN EN ISO/IEC 17000.

Pursuant to Art. 11 section 2 of Regulation (EC) 765/2008, the accreditation certificate shall be recognised as equivalent by the national authorities within the scope of this Regulation as well as by the WTO member states that have committed themselves in bilateral or multilateral mutual agreements to recognise the certificates of accreditation bodies that are members of ILAC or IAF as equivalent.

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 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

Annex to the Accreditation Certificate D-PL-11238-01-00 according to DIN EN ISO/IEC 17025:2018

Valid from: 03.03.2025

Date of issue: 03.03.2025

Holder of accreditation certificate:

ContiTech Luftfedersysteme GmbH
Continental-Plaza 1, 30175 Hannover

with the location

ContiTech Luftfedersysteme GmbH
Philipsbornstraße 1, 30165 Hannover

The calibration laboratory meets the requirements of DIN EN ISO/IEC 17025:2018 to carry out the conformity assessment activities listed in this annex. The calibration 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.

Tests in the fields:

Endurance tests of air spring systems and rubber suspension components and measurement of force and deformation characteristics; corrosion tests, burst pressure tests, climate chamber testing

The testing laboratory is permitted to modify, further develop and develop new test methods within the designated test areas without having to inform and obtain prior approval from DAkkS [flexibilization according to category C]. The test methods listed are examples.

The testing laboratory has a current list of all test methods in the flexible accreditation area. The list is publicly available on the website of the testing laboratory.

This certificate annex 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 given scope of accreditation can be found in the directory of accredited bodies maintained by Deutsche Akkreditierungsstelle GmbH at <https://www.dakks.de>.

Abbreviations used: see last page

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

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1 Endurance tests of air spring systems and rubber suspension components

Test Method	Title
DIN EN ISO 6803 2017-07	Rubber or plastics hoses and hose assemblies - Hydraulic-pressure impulse test without flexing
AAHP91, Vers. 3 2017-08	Tests with road load data – Conversion of a measured acceleration signal into a displacement signal
AAWP05, Vers. 7 2018-01	Durability tests on seesaw test rigs

2 Measurement of force and deformation characteristics, burst pressure tests

Test Method	Title
DIN EN 13597 2008-04	Railway applications - Rubber suspension components - Rubber diaphragms for pneumatic suspension springs
DIN EN 13913 2003-08	Railway applications - Rubber suspension components - Elastomer-based mechanical parts
AABD02, Vers. 4 2019-04	Bursting pressure test
AADA01, Vers. 3 2018-03	Rolling performance in deflated condition
AADP01, Vers. 1 2017-06	Tightness test
AAHP02, Vers. 10 2019-04	Characteristics measurement of airsprings for railway applications
AAHP03, Vers. 11 2019-05	Characteristics measurement of sleeve type bellows and airsprings for commercial vehicles and industrial applications
AAHP05, Vers. 2 2011-11	Simulation of static and dynamic multiaxial kinematics

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Test Method	Title
AAHP07, Vers. 3 2017-08	Measurement of deformations using strain gauges
AAHP08, Vers. 2 2014-03	Determination of high product stiffness using direct displacement measurement (independent from test rig stiffness)
HVHP02, Vers. 5 2018-12	Specification MV 600/ A for railway air spring systems

3 Corrosion and climate chamber testing

Test Method	Title
DIN EN ISO 4628-1 2016-07	Paints and varnishes - Evaluation of degradation of coatings - Designation of quantity and size of defects, and of intensity of uniform changes in appearance - Part 1: General introduction and designation system
DIN EN ISO 4628-2 2016-07	Paints and varnishes - Evaluation of degradation of coatings - Designation of quantity and size of defects, and of intensity of uniform changes in appearance - Part 2: Assessment of degree of blistering
DIN EN ISO 4628-3 2016-07	Paints and varnishes - Evaluation of degradation of coatings - Designation of quantity and size of defects, and of intensity of uniform changes in appearance - Part 3: Assessment of degree of rusting <i>(withdrawn document)</i>
DIN EN ISO 4628-8 2013-03	Paints and varnishes - Evaluation of degradation of coatings - Designation of quantity and size of defects, and of intensity of uniform changes in appearance - Part 8: Assessment of degree of delamination and corrosion around a scribe or other artificial defect
DIN EN ISO 9227 2017-07	Corrosion tests in artificial atmospheres - Salt spray tests <i>(withdrawn document)</i>

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Test Method	Title
DIN EN ISO 11997-1 2018-01	Paints and varnishes - Determination of resistance to cyclic corrosion conditions - Part 1: Wet (salt fog)/dry/humid
Scania STD 4271 2018-10	Surface Treatment-Scribing and evaluating the extent of damage
Scania STD 4319 2012-09	Accelerated corrosion test
Volvo STD 423-0014 2015-01	Accelerated corrosion test
Volvo STD 423-0018 2004-10	Moisture resistance in tropical cabinet
Volvo STD 1021,2 2002-10	Scribing of a surface coated test object and evaluation of the propagation from scribe when corrosion testing
AABD03, Vers. 3 2019-10	Warm bursting pressure test

4 Characteristic Parameter within the flexible scope of accreditation

4.1 Life cycles, characteristic curve, burst pressure

Type of test	Test range	Typically test methods
- force	-500 kN - 500 kN	DIN EN ISO 6803
- moment	-60 kNm to +60 kNm	DIN EN 13597,
- pressure ¹⁾	-0,9 hPa to 100 hPa	DIN EN 13913,
- distance (product deformation)	-1000 mm to +1000 mm	AABD02, Vers. 4 AABD03, Vers. 3
- angel	-30° to +30°	AADA01, Vers. 3
- length (product dimension)	1,0 mm to 1000 mm to 10 mm to 150 mm to 250 mm to 600 mm to 1000 mm	AADP01, Vers. 1 AAHP02, Vers. 10 AAHP03, Vers. 11 AAHP05, Vers. 2 AAHP07, Vers. 3 AAHP08, Vers. 2 AAHP91, Vers. 3 AAWP05, Vers.7 HVHP02, Vers. 5

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Type of test	Test range	Typically test methods
- weighth	1,0 kg to 250 kg to 5 kg to 20 kg to 50 kg to 250kg	AAHP02, Vers. 10
- mass flow	0 - 1200 l/min (iN)	AAWP05, Vers. 7

4.2 Corrosion test

Type of test	Test range	Typically test methods
- chamber volume	400 und 1000 l	DIN EN ISO 9227
- density	0,01 g/cm ³ to 3 g/cm ³	DIN EN ISO 11997-1
- pH-value	0 to 14 pH	Volvo STD 423-0014
- electrical conductivity	0,002 mS/cm to 0,2 mS/cm	Scania STD 4319
- rust grade	Ri0 to Ri5	

4.3 climate chamber

Type of test	Test range	Typically test methods
- temperature	- 60°C to +120°C	DIN EN ISO 6803
- humidity	10% - 100% rel. F	DIN EN ISO 11997-1 DIN EN 13597, DIN EN 13913, Volvo STD 423-0014 Scania STD 4319

Note:

¹⁾ Pressure is given as relative value according to ambient pressure of 1,013 hPa (mean value).

Abbreviations used:

AA; HV Standard of ContiTech Luftfedersysteme GmbH
 DIN Deutsches Institut für Normung e.V. – German institute for standardization
 EN Europäische Norm – European Standard
 IEC International Electrotechnical Commission
 ISO International Organization for Standardisation