

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-PL-14169-03-07 according to DIN EN ISO/IEC 17025:2018

Valid from: **30.11.2020**

Date of issue: 30.11.2020

Holder of certificate:

TÜV Rheinland LGA Products GmbH
Tillystraße 2, 90431 Nürnberg

Tests in the fields:

Corrosion tests, corrosion change tests, coating thickness measurements, adhesion tests on surfaces and coatings.

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 testing laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, to use standards or equivalent testing methods listed here with different issue dates. 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>*

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1. Determination of the corrosion resistance of surfaces and coatings using environmental simulation tests *

DIN EN ISO 9227 2017-07	Corrosion tests in artificial atmospheres - Salt spray tests
DIN EN 60068-2-11 2000-02	Environmental testing – Part 2: Tests – Test Ka: Salt mist
DIN EN ISO 8442-1 1998-03	Materials and articles in contact with foodstuffs – Cutlery and table holloware – Part 1: Requirements for cutlery for the preparation of food <i>(Here: Annex A – Test methods – A.1 – Test method for the corrosion resistance of cutlery in the normal and special categories)</i>
DIN EN ISO 8442-2 2017-09	Materials and articles in contact with foodstuffs – Cutlery and table holloware – Part 2: Requirements for stainless steel and silver-plated cutlery <i>(Here: Annex C – Test method for corrosion resistance of uncoated stainless steel cutlery)</i>
ASTM B 117 2016	Standard Practice for Operating Salt Spray (Fog) Apparatus <i>(document withdrawn)</i>

2. Determination of the corrosion resistance of surfaces and coatings using environmental simulation tests under cyclically changing loads *

DIN EN ISO 6270-1 2018-04	Paints and varnishes - Determination of resistance to humidity - Part 1: Condensation (single-sided exposure)
DIN EN ISO 6270-2 2018-04	Paints and varnishes - Determination of resistance to humidity - Part 2: Condensation (in-cabinet exposure with heated water reservoir)
DIN 50958 2012-12	Electroplated coatings – Modified corrodokote corrosion test (mod. CORR-Test)
VDA 233-102 2013-06	Cyclic corrosion testing of materials and components in automotive construction
DIN EN ISO 11997-1 2018-01	Paints and varnishes – Determination of resistance to cyclic corrosion conditions – Part 1: Wet (salt fog)/dry/humid
DIN EN 60068-2-52 2017-03	Environmental testing – Part 2-52: Tests – Test Kb: Salt mist, cyclic (sodium chloride solution)

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BMW AA-0224 2015-06	Corrosion change test
GM-GMW14872 2013-03	Cyclic Corrosion Laboratory Test
VW-PV 1210 2016-02	Corrosion test
DIN EN ISO 12944-6 2018-06	Paints and varnishes – Corrosion protection of steel structures by protective paint systems – Part 6: Laboratory performance test methods (Here: Section 5.6 – Test method and test duration – Method according to testing programme 1)
Volvo Standard VCS 1027, 1449 2014-02	Accelerated corrosion test, version II – ACT II Cyclic atmospheric corrosion test with salt load
SAEJ 2334 2016-04	Laboratory Cyclic Corrosion Test
DIN 50018 2013-05	Testing in a saturated atmosphere in the presence of sulphur dioxide
DIN EN ISO 6988 1997-03	Metallic and other non-organic coatings – Sulphur dioxide test with general condensation of moisture
DIN EN ISO 3231 1998-02	Paints and varnishes – Determination of resistance to humid atmospheres containing sulphur dioxide
Nissan CCT I – NES M0158 2014	Methods of Compound Corrosion

3. Coating thickness measurements and adhesion tests on surfaces and coatings

DIN EN ISO 1463 2004-08	Metallic and oxide coatings – Measurement of coating thickness – Microscopical method
DIN EN ISO 2360 2017-12	Non-conductive coatings on non-magnetic electrically conductive base metals – Measurement of coating thickness – Amplitude-sensitive eddy-current method
DIN EN ISO 2178 2016-11	Non-magnetic coatings on magnetic substrates – Measurement of coating thickness – Magnetic method

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DIN EN ISO 2409
2013-06

Paints and varnishes - Cross-cut test

Abbreviations used:

AA	Arbeitsanweisung (work instruction)
ASTM	American Society for Testing and Materials
BMW	Bayerische Motoren Werke AG
DIN	Deutsches Institut für Normung e.V. (German Institute for Standardisation)
EN	European standard
GMW	General Motors Worldwide
Nissan CCT	Nissan Chassis Control Technology
ISO	International Organization for Standardization
PV	Prüfverfahren (test method)
SAE	Society of Automotive Engineers
VDA	Verband der Automobilindustrie (Association of the German automotive industry)
Volvo Standard VCS	Volvo Car Standard
VW	Volkswagen AG