Deutsche Akkreditierungsstelle

Annex to the Accreditation Certificate D-PL-21392-01-00 according to DIN EN ISO/IEC 17025:2018

Valid from: **13.12.2024**

Date of issue: 13.12.2024

Holder of accreditation certificate:

NonaChem GmbH
Wallstadter Straße 59, 68526 Ladenburg

with the location

NonaChem GmbH
Wallstadter Straße 59, 68526 Ladenburg

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.

Tests in the fields:

Mechanical, climatic and physical-chemical resistance tests on coating materials and plastics, corrosion tests, density determination of plastics, elongation tests on elastomers, coating thickness determination using magnetic and eddy current methods as well as hardness tests on plastics and elastomers

Within the given testing field marked with *, 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.

1 Test of paints and varnishes ***

DIN EN ISO 2409 2013-06	Paints and varnishes - Cross-cut test
DIN EN ISO 2813 2015-02	Paints and varnishes - Determination of the gloss value at 20°, 60° and 85°
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 EN ISO 20567-1 2017-07	Paints and varnishes - Determination of stone-chip resistance of coatings - Part 1: Multi-impact testing
DIN EN ISO 1518-1 2019-10	Paints and varnishes - Determination of scratch resistance - Part 1: Constant-loading method
DIN EN ISO 3248 2016-12	Paints and varnishes - Determination of the effect of heat
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

DIN EN ISO 4628-4 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 4: Assessment of degree of cracking
DIN EN ISO 4628-5 2016-07	Paints and varnishes - Evaluation of quantity and size of defects, and of intensity of uniform changes in appearance- Part 5: Assessment of degree of flaking
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 7784-1 2016-12	Paints and varnishes - Determination of resistance to abrasion - Part 1: Method with abrasive-paper covered wheels and rotating test specimen
DIN EN ISO 7784-2 2016-12	Paints and varnishes - Determination of resistance to abrasion - Part 2: Method with abrasive rubber wheels and rotating test specimen
DIN ISO 9352 2018-08	Plastics - Determination of resistance to wear by abrasive wheels
DIN EN 60068-2-70 1996-07	Environmental testing - Part 2: Tests Test Xb: Abrasion of markings and letterings caused by rubbing of fingers and hands
DIN EN ISO 16925 2022-06	Paints and varnishes - Determination of the resistance of coatings to pressure water-jetting
SAE J400 2022-08	Test for chip resistance of surface coatings

2 Climatic tests on technical products

2.1 Climatic tests on technical products in accordance with standard procedures ***

DIN EN ISO 4892-2 2021-11	Plastics - Methods of exposure to laboratory light sources - Part 2: Xenon-arc lamps
DIN EN 60068-2-1 2008-01	Environmental testing - Part 2-1: Tests - Test A: Cold
DIN EN 60068-2-2 2008-05	Environmental testing - Part 2-2: Tests - Test B: Dry heat
DIN EN 60068-2-30 2016-01	Environmental testing - Part 2-30: Tests - Test Db: Damp heat, cyclic (12 h + 12 h cycle)
DIN EN 60068-2-38 2010-06	Environmental testing - Part 2-38: Tests - Test Z/AD: Composite temperature/humidity cyclic test
DIN EN 60068-2-67 2020-08	Environmental testing - Part 2-67: Tests - Test Cy: Damp heat, steady state, accelerated test primarily intended for components
DIN EN 60068-2-78 2014-02	Environmental testing - Part 2-78: Tests - Test Cab: Damp heat, steady state

2.2 Climatic tests on technical products in accordance with manufacturer's instructions

PV 1200 2022-11	Vehicle parts - Testing the Environmental Cycle Resistance (80 °C/-40 °C)
PV 1209 2023-01	Add-On Parts/Hang-On Parts with a Zinc or Zinc Alloy Coating and Aluminum Add-On Parts/Hang-On Parts (e.g., Heat Exchanger, Refrigerant Line - Corrosion Test (Environmental Corrosion Cycle Test)
PV 1210 2016-02	Body and Add-On Parts/Hang-On Parts - Corrosion Test

3 Density determination of plastics ***

DIN EN ISO 1183-1 2019-09	Plastics - Methods for determining the density of non-cellular plastics - Part 1: Immersion method, liquid pycnometer method and titration method

4 Corrosion tests on technical products ***

DIN EN ISO 2812-1 2018-03	Paints and varnishes - Determination of resistance to liquids - Part 1: Immersion in liquids other than water
DIN EN ISO 2812-2 2019-03	Paints and varnishes - Determination of resistance to liquids - Part 2: Water immersion method
DIN EN ISO 2812-3 2019-08	Paints and varnishes - Determination of resistance to liquids - Part 3: Method using an absorbent medium
DIN EN ISO 2812-4 2018-03	Paints and varnishes - Determination of resistance to liquids - Part 4: Spotting methods
DIN EN ISO 9227 2017-07	Corrosion tests in artificial atmospheres - Salt spray tests
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 IEC 60068-2-11 2022-10	Environmental testing - Part 2: Tests - Test Ka: Salt mist
ISO 16750-5 2010-04	Road vehicles Environmental conditions and testing for electrical and electronic equipment - Part 5: Chemical loads

5 Resistance testing on elastomers ***

DIN ISO 1431-1 2017-04	Rubber, vulcanized or thermoplastic - Resistance to ozone cracking - Part 1: Static and dynamic strain testing

6 Determination of layer thicknesses ***

DIN EN ISO 2178 2016-11	Non-magnetic coatings on magnetic substrates - Measurement of coating thickness - Magnetic 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 2808 2019-12	Paints and varnishes - Determination of film thickness

7 Hardness tests ***

DIN EN ISO 868 2003-10	Plastics and ebonite - Determination of indentation hardness by means of a durometer (Shore hardness)
DIN ISO 48-4 2021-02	Rubber, vulcanized or thermoplastic - Determination of hardness - Part 4: Indentation hardness by durometer method (Shore hardness)

Abbreviations used:

DIN	German Institute for Standardization
EN	European standard
IEC	International Electrotechnical Commission
ISO	International Organization for Standardization
PV	Volkswagen factory standard
SAE	Society of Automotive Engineers