

Deutsche Akkreditierungsstelle

Annex to the Accreditation Certificate D-PL-18119-02-00 according to DIN EN ISO/IEC 17025:2018

Valid from: 22.06.2023

Date of issue: 05.12.2024

Holder of accreditation certificate:

TechnoLab Gesellschaft für Elektronikindustrie-Service mbH
Wohlrabadamm 13, 13629 Berlin

with the locations

TechnoLab Gesellschaft für Elektronikindustrie-Service mbH
Wohlrabadamm 13, 13629 Berlin
Eiswerderstr. 16, 13585 Berlin

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: Environmental simulation

Within the scope of accreditation 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 procedures within the flexible scope of accreditation.

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

Page 1 of 17

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

Annex to the Accreditation Certificate D-PL-18119-02-00

Within the given testing field (with ** marked the test areas) 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.

Flexible accreditation category I:

Tests in the field of climatic, corrosive and mechanical-dynamic environmental testing

Climatic tests**

Test type **	Test area	Test parameters	Typical test methods	Site location
Temperature Cold, dry heat	Temperature	-55 ... +250 °C	EN 60068-2-1 EN 60068-2-2	Wohlrabadamm Eiswerder
	Climate	+10 ... +85 °C	EN 60068-2-30 EN 60068-2-38 EN 60068-2-78	Wohlrabadamm Eiswerder
	relative humidity	10 ... 98 % r.H.		
Temperature shock (air/air)	Temperature	-55 ... +220 °C	EN 60068-2-14 Na, Nb	Wohlrabadamm Eiswerder
	Rate of change	≤ 15 K/min		
Corrosion Salt spray	Salt concentration	0,5 ... 10% NaCl	EN 60068-2-11 EN 60068-2-52 EN ISO 9227	Wohlrabadamm
	Temperature	RT ... 50 °C		
	relative humidity	35 ... 100 % r.H.		
	Precipitation per h	1 ... 3ml/80cm ²		
Corrosion Noxious gas	Gas concentration	H ₂ S: 0,01 ... 12,5 ppm SO ₂ : 0,2 ... 25 ppm NO ₂ : 0,2 ppm Cl ₂ : 0,01 ... 0,002 ppm	EN 60068-2-60 EN 60512-11-7	Wohlrabadamm
	Temperature	+25 ... +30°C		
	relative humidity	70 ... 75 % r.H.		
Vibration and mechanical shock	Frequency	5 ... 2500 Hz	EN 60068-2-6 EN 60068-2-27 EN 60068-2-29 EN 60068-2-64	Wohlrabadamm Eiswerder
	Acceleration	1 ... 500m/s ²		

Valid from: 22.06.2023

Date of issue: 05.12.2024

Test type **	Test area	Test parameters	Typical test methods	Site location
	Sine wave		EN 60068-2-80	
	Broadband noise			
	Acceleration Shock	10 ... 10000m/s ²		
	Temperature	-55 ... +230°C		
Stone chipping	Temperatur3	-55 ... +35°C	EN ISO 20567-1	Wohlrabedamm
	Pressure	0 ... 5bar		
	Grain size	4 ... 16mm		
Degree of protection tests IP X3 – IP X9 IPX4K, IPX6K, IPX9K	Temperature	0 ... +160 °C	ISO 16750-4 DIN EN 60529 ISO 20653	Wohlrabedamm
	Water volume flow	1 ... 3 l/(min·m ²) 0 ... 200 l/min		
	Immersion depth	0 ... 2 m		
Degree of protection tests IP 1X – IP 6X	Dust		ISO 16750-4 DIN EN 60529 ISO 20653	Wohlrabedamm
	Talc, Arizona	2 kg/m ³		
	Particle concentration	5 ± 2 g/m ³ 6 g/m ² pro Tag		
	Negative pressure	2 kPA		
Sand- und Staubprüfungen	Temperature	+23 ... +80 °C	EN 60068-2-68	Wohlrabedamm
	relative humidity	<30 % r.H.		
	Particle concentration	0,18g ... 17 g/m ³		
	Air velocity	0,5 ... 25 m/s		
Chemical tests	Temperature	RT ... +300 °C	ISO 16750-5	Wohlrabedamm
	Impact	Dipping, spraying, brushing, wiping (cloth), immersion		
Solar radiation	Irradiance (global radiation)	0 ... 1200 W/m ²	ISO 75220 EN 60068-2-5	Wohlrabedamm
	Wavelength range	300 ... 3000 nm		
	Temperature	-10°C ... +80°C		
	relative humidity	<30 % r.H. und >50 % r.H.		

Valid from: 22.06.2023

Date of issue: 05.12.2024

Page 3 of 17

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

Annex to the Accreditation Certificate D-PL-18119-02-00

Test type **	Test area	Test parameters	Typical test methods	Site location
UV light tests	Bestrahlungsstärke Irradiance (UV light 290-400 nm)	0,7 ... 45 W/m ²	ISO 4892-3	Wohlrabedamm
	Wavelength range	290 nm - 400 nm		
	Temperature	25°C ... +70°C		
	relative humidity	<15 % r.H. and >60 % r.H. Spraying Relative humidity control		

Location	Standard or Test method / issue status	Title of the standard or test method	Restrictions on the test procedure
Basic standards			
Wohlrabedamm, Eiswerder	DIN EN 60068-2-1 (VDE 0468-2-1):2008-01*	Environmental testing - Part 2-1: Tests - Test A: Cold (IEC 60068-2-1:2007); German version EN 60068-2-1:2007; German version EN 60068-2-1:2007	
Wohlrabedamm, Eiswerder	DIN EN 60068-2-2 (VDE 0468-2-2):2008-05*	Environmental testing - Part 2-2: Tests - Test B: Dry heat (IEC 60068-2-2:2007); German version EN 60068-2-2:2007	
Wohlrabedamm	DIN EN IEC 60068-2-5 (VDE 0468-2-5):2019-02*	Environmental testing - Part 2-5: Tests - Test S: Simulated solar radiation at ground level and guidance for solar radiation testing and weathering (IEC 60068-2-5:2018); German version EN IEC 60068-2-5:2018	only test: Test method Sa1
Wohlrabedamm, Eiswerder	DIN EN 60068-2-6 (VDE 0468-2-6):2008-10*	Environmental testing - Part 2-6: Tests - Test Fc: Vibration (sinusoidal) (IEC 60068-2-6:2007); German version EN 60068-2-6:2008	

Valid from: 22.06.2023
Date of issue: 05.12.2024

Annex to the Accreditation Certificate D-PL-18119-02-00

Location	Standard or Test method / issue status	Title of the standard or test method	Restrictions on the test procedure
Wohlrabedamm	DIN EN 60068-2-11:2000-02*	Environmental testing - Part 2: Tests: Test Ka: Salt spray (IEC 60068-2-11:1981); German version EN 60068-2-11:1999	
Wohlrabedamm	DIN EN 60068-2-11:2022-10*	Environmental testing - Part 2-11: Tests - Test Ka: Salt mist (IEC 60068-2-11:2021); German version EN IEC 60068-2-11:2021	
Wohlrabedamm, Eiswerder	DIN EN 60068-2-14:2010-04*	Environmental testing - Part 2-14: Tests - Test N: Change of temperature (IEC 60068-2-14:2009); German version EN 60068-2-14:2009	without test Nc
Wohlrabedamm, Eiswerder	DIN EN 60068-2-27 (VDE 0468-2-27):2010-02*	Environmental testing - Part 2-27: Tests - Test Ea and guidance: Shock (IEC 60068-2-27:2008); German version EN 60068-2-27:2009	
Wohlrabedamm, Eiswerder	DIN EN 60068-2-29 :1995-03*	Environmental audits Part 2: Audits Eb tests and guidelines: Permanent shocks (IEC 68-2-29:1987); German Version EN 60068-2-29:1993	
Wohlrabedamm, Eiswerder	DIN EN 60068-2-30:2006-06*	Environmental testing - Part 2-30: Tests - Test Db: Damp heat, cyclic (12 h + 12 h cycle) (IEC 60068-2-30:2005); German version EN 60068-2-30:2005	
Wohlrabedamm, Eiswerder	DIN EN 60068-2-31:2009 -04*	Environmental testing - Part 2-31: Tests - Test Ec: Rough handling shocks, primarily for equipment-type specimens (IEC 60068-2-31:2008)	
Wohlrabedamm, Eiswerder	DIN EN 60068-2-38 (VDE 0468-2-38):2010-06*	Umgebungseinflüsse – Teil 2-38: Prüfverfahren – Prüfung Z/AD: Zusammengesetzte Prüfung, Temperatur/Feuchte, zyklisch (IEC 60068-2-38:2009); Deutsche Fassung EN 60068-2-38:2009	

Valid from: 22.06.2023
Date of issue: 05.12.2024

Annex to the Accreditation Certificate D-PL-18119-02-00

Location	Standard or Test method / issue status	Title of the standard or test method	Restrictions on the test procedure
Wohlrabedamm, Eiswerder	DIN EN IEC 60068-2-38 (VDE 0468-2-38):2021- 09	Environmental testing - Part 2-38: Tests - Test Z/AD: Composite temperature/humidity cyclic test (IEC 60068-2-38:2021); German version EN IEC 60068-2-38:2021	
Wohlrabedamm	DIN EN 60068-2-52 (VDE 0468-2-52):2018-08*	Environmental testing - Part 2-52: Tests - Test Kb: Salt mist, cyclic (sodium chloride solution) (IEC 60068-2-52:2017); German version EN IEC 60068-2-52:2018	without testing Test method 8
Wohlrabedamm	DIN EN 60068-2-60 (VDE 0468-2-60):2016-06*	Environmental testing - Part 2-60: Tests - Test Ke: Flowing mixed gas corrosion test (IEC 60068-2-60:2015); German version EN 60068-2-60:2015	
Wohlrabedamm, Eiswerder	DIN EN 60068-2-64 (VDE 0468-2-64):2020-09*	Environmental testing - Part 2-64: Tests - Test Fh: Vibration, broadband random and guidance (IEC 60068-2-64:2008 + A1:2019); German version EN 60068-2-64:2008 + A1:2019	
Wohlrabedamm	DIN EN 60068-2-68:1997 -02*	Environmental testing - Part 2: Tests; test L: Dust and sand (IEC 60068-2-68:1994); German version EN 60068-2-68:1996	Test Lc only (method Lc1 and method Lc2)
Wohlrabedamm, Eiswerder	DIN EN 60068-2-78 (VDE 0468-2-78):2014-02*	Environmental testing - Part 2-78: Tests - Test Cab: Damp heat, steady state (IEC 60068-2-78:2012); German version EN 60068-2-78:2013	
Wohlrabedamm, Eiswerder	DIN EN 60068-2-80:2006 -05*	Environmental testing - Part 2-80: Tests - Test Fi: Vibration - Mixed mode (IEC 60068-2-80:2005); German version EN 60068-2-80:2005	
Wohlrabedamm Eiswerder	DIN EN 61373 (VDE 0115- 106):2011-04*	Railway applications - Rolling stock equipment - Shock and vibration tests (IEC 61373:2010); German version EN 61373:2010	

Valid from: 22.06.2023

Date of issue: 05.12.2024

Annex to the Accreditation Certificate D-PL-18119-02-00

Location	Standard or Test method / issue status	Title of the standard or test method	Restrictions on the test procedure
Wohlrabedamm	DIN EN 60512-11-7:2004 -06*	Connectors for electronic equipment - Tests and measurements - Part 11-7: Climatic tests - Test 11g: Flowing mixed gas corrosion test (IEC 60512-11-7:2003); German version EN 60512-11-7:2003	
Wohlrabedamm	DIN EN ISO 9227:2017-07*	Corrosion tests in artificial atmospheres - Salt spray tests (ISO 9227:2017); German version EN ISO 9227:2017	only test: 5.2.2 Neutral salt spray test (NSS test)
Wohlrabedamm	DIN EN ISO 20567-1:2017 -07*	Paints and varnishes - Determination of stone-chip resistance of coatings - Part 1: Multi-impact testing (ISO 20567-1:2017); German version EN ISO 20567-1:2017	
Wohlrabedamm	DIN EN 60529 (VDE 0470-1):2014-09*	Degrees of protection provided by enclosures (IP Code) (IEC 60529:1989 + A1:1999 + A2:2013); German version EN 60529:1991 + A1:2000 + A2:2013	without IPX1 and IPX2
Wohlrabedamm	DIN EN 60034-5 (VDE 0530):2007-09*	Rotating electrical machines - Part 5: Degrees of protection provided by the integral design of rotating electrical machines (IP code) - Classification (IEC 60034-5:2020); German version EN IEC 60034-5:2020	without IPX1 and IPX2
Wohlrabedamm	DIN EN ISO 4892-3:2016-10	Plastics - Methods of exposure to laboratory light sources - Part 3: Fluorescent UV lamps (ISO 4892-3:2016); German version EN ISO 4892-3:2016	No Tests: Procedure C

Valid from: 22.06.2023
Date of issue: 05.12.2024

Annex to the Accreditation Certificate D-PL-18119-02-00

Location	Standard or Test method / issue status	Title of the standard or test method	Restrictions on the test procedure
Wohlrabadamm	ISO 20653:2013-02*	Road vehicles - Degrees of protection (IP code) - Protection of electrical equipment against foreign objects, water and access	without IPX1 and IPX2
Wohlrabadamm	ISO 16750-3:2012-12*	Road vehicles - Environmental conditions and testing for electrical and electronic equipment - Part 3: Mechanical loads	
Eiswerder	ISO 16750-3:2012-12*	Road vehicles - Environmental conditions and testing for electrical and electronic equipment - Part 3: Mechanical loads	without 4.3, 4.4 and 4.5
Wohlrabadamm	ISO 16750-4:2010-04*	Road vehicles - Environmental conditions and testing for electrical and electronic equipment - Part 4: Climatic loads	
Eiswerder	ISO 16750-4:2010-04*	Road vehicles - Environmental conditions and testing for electrical and electronic equipment - Part 4: Climatic loads	only test: 5.2, 5.3, 5.6, 5.7
Wohlrabadamm	ISO 16750-5:2010-04*	Road vehicles - Environmental conditions and testing for electrical and electronic equipment - Part 5: Chemical loads	

Valid from: 22.06.2023

Date of issue: 05.12.2024

Location	Standard or Test method / issue status	Title of the standard or test method	Restrictions on the test procedure
Wohlrabadamm	ISO 19453-5:2018-03*	Road vehicles - Environmental conditions and testing for electrical and electronic equipment for drive system of electric propulsion vehicles - Part 5: Chemical loads	
Wohlrabadamm	DIN EN 75220:1992-11	Ageing of automotive components in solar simulation units Test: Z-OUT D-OUT-T D-OUT-F	
Wohlrabadamm	MBN LV 124-2:2013-08	Electrical and electronic components in passenger cars up to 3,5 tonnes - General requirements, test conditions and tests - Part 2: Environmental requirements Mechanical requirements and tests: M-01, M-02, M-03, M-04, M-05, M-06 Climatic requirements and tests: K-01, K-02, K-03, K-04, K-05, K-06, K-07, K-08, K-09, K-10, K-11, K-12, K-13, K-14 (Severity 1 and Severity 2), K-15 (Variant a und b), K-16, K-17 (Z-OUT) und K-18 Chemical requirements and tests: C-01 Service life tests: L-02, L-03	without: K-17 (Z-IN1)

Location	Standard or Test method / issue status	Title of the standard or test method	Restrictions on the test procedure
Eiswerder	MBN LV 124-2:2013-08	<p>Electrical and electronic components in passenger cars up to 3,5 tonnes - General requirements, test conditions and tests - Part 2: Environmental requirements</p> <p>Mechanical requirements and tests: M-01, M-04, M-05, M-06</p> <p>Climatic requirements and tests: K-01, K-02, K-03, K-04, K-05, K-08, K-09, K-14 (Severity 1 and Severity 2), K-15 (Variant a und b), K-16</p> <p>Service life tests: L-02, L-03</p>	
Wohlrabadamm	VW 80000:2017-10	<p>Electrical and Electronic Units in Motor Vehicles up to 3,5 t General Requirements, Test Conditions, and Tests</p> <p>Mechanical requirements and tests: M-01, M-02, M-03, M-04, M-05, M-06</p> <p>Climatic requirements and tests: K-01, K-02, K-03, K-04, K-05, K-06, K-07, K-08, K-09, K-10, K-11, K-12, K-13, K-14 (Severity 1 and Severity 2), K-15 (Variant a und b), K-16, K-17 (Z-OUT) und K-18</p> <p>Chemical requirements and tests: C-01</p> <p>Service life tests: L-02 und L-03</p>	<p>without: E-01 – E-23 M-07 K-17 (Z-IN1) L-01</p>

Location	Standard or Test method / issue status	Title of the standard or test method	Restrictions on the test procedure
Eiswerder	VW 80000:2017-10	<p>Electrical and Electronic Units in Motor Vehicles up to 3,5 t General Requirements, Test Conditions, and Tests</p> <p>Mechanical requirements and tests: M-01, M-04, M-05, M-06</p> <p>Climatic requirements and tests: K-01, K-02, K-03, K-04, K-05, K-08, K-09, K-14 (Severity 1 and Severity 2), K-15 (Variant a und b), K-16</p> <p>Service life tests: L-02 und L-03</p>	
Wohlrabedamm	VW 80000:2021-01	<p>Electrical and Electronic Units in Motor Vehicles up to 3,5 t General Requirements, Test Conditions, and Tests</p> <p>Mechanical requirements and tests: M-01, M-02, M-03, M-04, M-05, M-06, M-08</p> <p>Climatic requirements and tests: K-01, K-02, K-03, K-04, K-05, K-06, K-07, K-08, K-09, K-10, K-11, K-12, K-13, K-14 (Severity 1 and Severity 2), K-15, K-16, K-17 (Z-OUT) und K-18</p> <p>Chemical requirements and tests: C-01</p> <p>Service life tests: L-02 und L-03</p>	<p>without: E-01 – E-24 M-07, M-09 K-17 (Z-IN1) L-01</p>

Valid from: 22.06.2023

Date of issue: 05.12.2024

Page 11 of 17

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

Location	Standard or Test method / issue status	Title of the standard or test method	Restrictions on the test procedure
Eiswerder	VW 80000:2021-01	<p>Electrical and Electronic Units in Motor Vehicles up to 3,5 t General Requirements, Test Conditions, and Tests</p> <p>Mechanical requirements and tests: M-01, M-04, M-05, M-06</p> <p>Climatic requirements and tests: K-01, K-02, K-03, K-04, K-05, K-08, K-09, K-14 (Severity 1 and Severity 2), K-15, K-16</p> <p>Service life tests: L-02 und L-03</p>	
Wohlrabedamm	GS 95024-3-1:2013-07	<p>Electrical and electronic components in motor vehicles Environmental requirements and tests</p> <p>Mechanical requirements and tests: M-01, M-02, M-03, M-04, M-05, M-06</p> <p>Climatic requirements and tests: K-01, K-02, K-03, K-04, K-05, K-06, K-07, K-08, K-09, K-10, K-11, K-12, K-13, K-14 (Severity 1 and Severity 2), K-15 (Variant a und b), K-16, K-17 (Z-OUT) und K-18</p> <p>Chemical requirements and tests: C-01</p> <p>Service life tests: L-02 und L-03</p>	<p>without: E-01 – E-22 K-17 (Z-IN1) L-01</p>

Location	Standard or Test method / issue status	Title of the standard or test method	Restrictions on the test procedure
Eiswerder	GS 95024-3-1:2013-07	<p>Electrical and electronic components in motor vehicles Environmental requirements and tests</p> <p>Mechanical requirements and tests: M-01, M-04, M-05, M-06</p> <p>Climatic requirements and tests: K-01, K-02, K-03, K-04, K-05, K-08, K-09, K-14 (Severity 1 und Severity 2), K-15 (Variant a und b), K-16</p> <p>Service life tests: L-02 und L-03</p>	
Wohlrabadamm	GS 95024-3-1:2019-08	<p>Electrical and electronic components in motor vehicles Environmental requirements and tests</p> <p>Mechanical requirements and tests: M-01, M-02, M-03, M-04, M-05, M-06</p> <p>Climatic requirements and tests: K-01, K-02, K-03, K-04, K-05, K-06, K-07, K-08, K-09, K-10, K-11, K-12, K-13, K-14 (Severity 1 und Severity 2), K-15 (Variant a und b), K-16, K-17 (Z-OUT) und K-18</p> <p>Chemical requirements and tests: C-01</p> <p>Service life tests: L-02 und L-03</p>	<p>without: M-07 K-17 (Z-IN1) L-01</p>

Location	Standard or Test method / issue status	Title of the standard or test method	Restrictions on the test procedure
Eiswerder	GS 95024-3-1:2019-08	Electrical and electronic components in motor vehicles Environmental requirements and tests Mechanical requirements and tests: M-01, M-04, M-05, M-06 Climatic requirements and tests: K-01, K-02, K-03, K-04, K-05, K-08, K-09, K-14 (Severity 1 und Severity 2), K-15 (Variant a und b), K-16 Service life tests: L-02 und L-03	
Wohlrabedamm	RTCA/DO-160F:2007-12	Environmental Conditions and Test Procedures for Airborne Equipment Prüfungen: Section 5 (Temperature Variation) Section 11 (Fluids Susceptibility) Section 12, Category D Section 12, Category S Section 14 (Salt Spray)	
Eiswerder	RTCA/DO-160F:2007-12	Environmental Conditions and Test Procedures for Airborne Equipment Prüfungen: Section 5 (Temperature Variation)	
Wohlrabedamm	RTCA/DO-160G:2010-12	Environmental Conditions and Test Procedures for Airborne Equipment Prüfungen: Section 5 (Temperature Variation) Section 11 (Fluids Susceptibility) Section 12, Category D Section 12, Category S Section 14 (Salt Spray)	

Location	Standard or Test method / issue status	Title of the standard or test method	Restrictions on the test procedure
Eiswerder	RTCA/DO-160G:2010-12	Environmental Conditions and Test Procedures for Airborne Equipment Prüfungen: Section 5 (Temperature Variation)	
Wohlrabedamm	MIL-STD-810F:2000-01	Department of defense test method standard for environmental engineering considerations and laboratory tests Nur Prüfungen: Method 501.4 (High Temperature) Method 502.4 (Low Temperature) Method 503.4 (Temperature Shock) Method 504 (Contamination by Fluids) Method 509.4 (Salt Fog) Method 510.4 Procedure I (Blowing Dust) Method 510.4 Procedure II (Blowing Sand)	
Eiswerder	MIL-STD-810F:2000-01	Department of defense test method standard for environmental engineering considerations and laboratory tests Nur Prüfungen: Method 501.4 (High Temperature) Method 502.4 (Low Temperature) Method 503.4 (Temperature Shock)	
Wohlrabedamm	MIL-STD-810G:2008-10	Department of defense test method standard Environmental engineering considerations and laboratory tests Nur Prüfungen: Method 501.5 (High Temperatur) Method 502.5 (Low Temperatur) Method 503.5 (Temperature Shock) Method 504.1 (Contamination by Fluids) Method 505.5 (Solar Radiation (Sunshine)) Procedure II Method 509.5 (Salt Fog) Method 510.5 Procedure I (Blowing Dust) Method 510.5 Procedure II (Blowing Sand)	

Location	Standard or Test method / issue status	Title of the standard or test method	Restrictions on the test procedure
Eiswerder	MIL-STD-810G:2008-10	Department of defense test method standard Environmental engineering considerations and laboratory tests Nur Prüfungen: Method 501.5 (High Temperatur) Method 502.5 (Low Temperatur) Method 503.5 (Temperature Shock)	
Wohlrabadamm	MIL-STD-810G w/Change 1:2014:04	Department of defense test method standard Environmental engineering considerations and laboratory tests Nur Prüfungen: Method 501.6 (High Temperature) Method 502.6 (Low Temperature) Method 503.6 (Temperature Shock) Method 504.2 (Contamination by Fluids) Method 505.6 (Solar Radiation (Sunshine)) Procedure II Method 510.6 Procedure I (Blowing Dust) Method 510.6 Procedure II (Blowing Sand)	
Eiswerder	MIL-STD-810G w/Change 1:2014:04	Department of defense test method standard Environmental engineering considerations and laboratory tests Nur Prüfungen: Method 501.6 (High Temperature) Method 502.6 (Low Temperature) Method 503.6 (Temperature Shock)	
Wohlrabadamm	MIL-STD-810H:2019-01	Department of defense test method standard Environmental engineering considerations and laboratory tests Prüfungen: Method 501.7 (High Temperature) Method 502.7 (Low Temperature) Method 503.7 (Temperature Shock) Method 504.3 (Contamination by Fluids) Method 505.7 (Solar Radiation (Sunshine)) Procedure II	

Valid from: 22.06.2023

Date of issue: 05.12.2024

Location	Standard or Test method / issue status	Title of the standard or test method	Restrictions on the test procedure
		Method 509.7 (Salt Fog) Method 510.7, Procedure I (Blowing Dust) Method 510.7, Procedure II (Blowing Sand)	
Eiswerder	MIL-STD-810H:2019-01	Department of defense test method standard Environmental engineering considerations and laboratory tests Prüfungen: Method 501.7 (High Temperature) Method 502.7 (Low Temperature) Method 503.7 (Temperature Shock)	
Wohlrabadamm	SAE J400:2012-10	Test for Chip Resistance of Surface Coatings	
Wohlrabadamm	SAE J400:2022-08	Test for Chip Resistance of Surface Coatings	-
Wohlrabadamm	JDQ 53.3:2011-08	Environmental Design and Testing of Electronic/Electrical Components and Assemblies	only test: 3.3 Particle Impact, Level 2

Abbreviations used:

DIN EN	Deutsches Institut für Normung e.V., (German Institute for Standardisation e.V.)
SAE	Society of Automotive Engineers
ISO	International Organisation for Standardization
JDQ	John Deere Quality test
MIL	Military standard of the US Army
RTCA	Radio technical commission for aeronautics
GS	BMW Group Standard
VW	Vorschrift der Volkswagen AG, (Regulation of Volkswagen AG)
MBN	Mercedes Benz Norm, (Mercedes Benz standard)

Valid from: 22.06.2023

Date of issue: 05.12.2024

Page 17 of 17

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