DAkkS
Deutsche
Akkreditierungsstelle

Accreditation

The Deutsche Akkreditierungsstelle attests with this **Accreditation Certificate** that

RST Rail System Testing GmbH
Walter-Kleinow-Ring 7, 16761 Hennigsdorf

operates a testing laboratory that fulfills the requirements according to DIN EN ISO/IEC 17025:2018 for those conformity assessment activities specified in detail in the annexes listed below. This includes additional existing legal and normative requirements for the testing laboratory including those in relevant sectoral schemes, provided that these are explicitly confirmed in the annexes listed below.

D-PL-11012-01-01	**Gültig ab: 08.06.2026**
D-PL-11012-01-02	**Gültig ab: 10.04.2024**
D-PL-11012-01-03	**Gültig ab: 15.10.2024**
D-PL-11012-01-04	**Gültig ab: 19.09.2025**
D-PL-11012-01-05	**Gültig ab: 19.09.2025**

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 notice of 08.06.2026. It consists of this cover sheet, the reverse side of the cover sheet and the corresponding annex

Registration number of the accreditation certificate: **D-PL-11012-01-00**

Berlin, 08.06.2026 Lbm.-Chem. Tim Fuchs | Head of Service Unit

Translation issued: 08.06.2026

This accreditation certificate was issued by the Deutsche Akkreditierungsstelle GmbH (DAkkS). It is digital sealed and valid without signature. It 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).

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

See notes overleaf

Deutsche Akkreditierungsstelle GmbH

Office Berlin
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10117 Berlin

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-11012-01-01 according to DIN EN ISO/IEC 17025:2018

Valid from: **08.06.2026**

Date of issue: 08.06.2026

This annex is part of the Accreditation Certificate D-PL-11012-01-00.

Holder of the Accreditation Certificate:

RST Rail System Testing GmbH
Walter-Kleinow-Ring 7, 16761 Hennigsdorf

with the location

RST Rail System Testing GmbH
Walter-Kleinow-Ring 7, 16761 Hennigsdorf

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.

Fire Tests
Fire testing of materials, assemblies, and systems used in transportation engineering;

Testing of the fire performance of construction products for which it is not necessary to specify the reference to a relevant harmonized technical specification (Construction Products Regulation (EU) No 305/2011, Annex V, point 3, and (EU) 2024/3110, Annex X)

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Flexible Scope of Accreditation:

The testing laboratory is permitted to use standardised or equivalent test methods listed here with different issue dates without being required to prior inform and obtain approval from DAkkS (flexibilization according to category A).

The testing laboratory has an up-to-date list of all test methods within the flexible scope of accreditation. The list is publicly available on the website of the testing laboratory.

Contents

1 Fire testing

1.1 Fire testing of plastics and materials used in electrical engineering

ISO 9772 2020-11	Cellular plastics - Determination of horizontal burning characteristics of small specimens subjected to a small flame
DIN EN ISO 4589-2 2017-11	Plastics - Determination of burning behaviour by oxygen index - Part 2: Ambient-temperature test
DIN EN ISO 9773 2004-02	Plastics - Determination of burning behaviour of thin flexible vertical specimens in contact with a small-flame ignition source *(withdrawn standard)*
DIN EN 60332-1-2 VDE 0482-332-1-2 2022-07	Tests on electric and optical fibre cables under fire conditions - Part 1-2: Test for vertical flame propagation for a single insulated wire or cable - Procedure for 1 kW pre-mixed flame
DIN EN 60332-1-3, VDE 0482-332-1-3 2017-09	Tests on electric and optical fibre cables under fire conditions - Part 1-3: Test for vertical flame propagation for a single insulated wire or cable - Procedure for determination of flaming droplets/particles
DIN EN IEC 60695-2-11 VDE 0471-2-12 2022-12	Fire hazard testing - Part 2-11: Glowing/hot-wire based test methods - Glow-wire flammability test method for end products (GWEPT)
DIN EN IEC 60695-2-12 VDE 0471-2-12 2022-11	Fire hazard testing - Part 2-12: Glowing/hot-wire based test methods - Glow-wire flammability index (GWFI) test method for materials
DIN EN IEC 60695-2-13 VDE 0471-2-13 2022-11	Fire hazard testing - Part 2-13: Glowing/hot-wire based test methods - Glow-wire ignition temperature (GWIT) test method for materials
DIN EN 60695-11-3 VDE 0471-11-3 2014-10	Fire hazard testing - Part 11-3: Test flames - 500 W flames - Apparatus and confirmational test methods
DIN EN 60695-11-4 VDE 0471-11-4 2013-05	Fire hazard testing - Part 11-4: Test flames - 50 W flame - Apparatus and confirmational test method
DIN EN 60695-11-5 VDE 0471-11-5 2017-12	Fire hazard testing - Part 11-5: Test flames - Needle-flame test method - Apparatus, confirmatory test arrangement and guidance *(withdrawn standard)*

DIN EN 60695-11-10 VDE 0471-11-10 2014-10	Fire hazard testing - Part 11-10: Test flames - 50 W horizontal and vertical flame test methods
DIN EN 60695-11-20 VDE 0471-11-20 2016-04	Fire hazard testing - Part 11-20: Test flames - 500 W flame test methods
UL 94 2013-03	Tests for Flammability of Plastic Materials for Parts in Devices and Appliances

1.2 Fire testing of materials and components in railway vehicles

ISO 5658-2 2006-09	Reaction to fire tests - Spread of flame - Part 2: Lateral spread on building and transport products in vertical configuration
ISO 5660-1 2015-03 Amendment 1 2019-08	Reaction-to-fire tests - Heat release, smoke production and mass loss rate - Part 1: Heat release rate (cone calorimeter method) and smoke production rate (dynamic measurement)
ISO/TR 9705-2 2001-05	Reaction-to-fire tests - Full-scale room tests for surface products - Part 2: Technical background and guidance
DIN EN ISO 5659-2 2017-11	Plastics - Smoke generation - Part 2: Determination of optical density by a single-chamber test
DIN EN 16989 2018-08	Railway applications - Fire protection on railway vehicles - Fire behaviour test for a complete seat
DIN EN 17084 2020-10	Railway applications - Fire protection on railway vehicles - Toxicity test of materials and components
DIN EN 45545-2 2016-02	Railway applications - Fire protection on railway vehicles - Part 2: Requirements for fire behaviour of materials and components *(withdrawn standard)* *(Appendix C: Test methods for the determination of toxic gases from components for rail vehicles* *Appendix B: Fire test methods for seats)* **in conjunction with:** *DIN EN 45545-2 2020-10* — *Railway applications - Fire protection on railway vehicles - Part 2: Requirements for fire behavior of materials and components*

DIN 5510-2 2009-05	Preventive fire protection in railway vehicles - Part 2: Fire behaviour and fire side effects of materials and parts - Classification, requirements and test methods (here: *Appendix C – Testing of flue gas toxicity)* *(withdrawn standard)*
DIN 53438-2 1984-06	Testing of combustible materials; response to ignition by a small flame; edge ignition
DIN 53438-3 1984-06	Testing of combustible materials; response to ignition by a small flame; surface ignition
DIN 54341 1988-01	Testing of seats in railways for public traffic; determination of burning behaviour with a paper pillow ignition source *(withdrawn standard)*
DIN 54837 2007-12	Testing of materials, small components and component sections for rail vehicles - Determination of burning behaviour using a gas burner *(withdrawn standard)*

1.3 Fire testing of materials and components in motor vehicles

ISO 3795 1989-10	Straßenfahrzeuge sowie Traktoren und Maschinen für die Land- und Road vehicles, and tractors and machinery for agriculture and forestry - Determination of burning behaviour of interior materials
ISO 6722-1 2011-10	Road vehicles - 60 V and 600 V single-core cables - Part 1: Dimensions, test methods and requirements for copper conductor cables *(withdrawn standard)*
ISO 6722-2 2013-12	Road vehicles - 60 V and 600 V single-core cables - Part 2: Dimensions, test methods and requirements for aluminium conductor cables *(withdrawn standard)* *Section 5.22 Resistance to flame propagation*
DIN 75200 1980-09	Determination of burning behaviour of interior materials in motor vehicles

RL 95/28/EG 1995-10	Directive 95/28/EC of the European Parliament and of the Council of 24 October 1995 on the burning behaviour of interior materials in certain categories of motor vehicles *Annex IV: Test to determine the horizontal burning rate of materials* *Annex V: Test to determine the melting behaviour of materials* *Annex VI: Test to determine the vertical burning rate of materials*
UN ECE R 118 ÄS04 2021	Uniform technical regulations concerning the burning behaviour and/or properties of materials, fuel or lubricants used in the construction of certain classes of motor vehicles *Annex 6: Test to determine the horizontal burning rate* *Annex 7: Test to determine the melting behaviour of materials* *Annex 8: Test to determine the vertical burning rate of materials* *Annex 9: Test to determine the properties of materials, fuel or lubricants* *Annex 10: Test to determine the flame resistance of electrical cables*
FMVSS 302 2013-10	Standard No. 302; Flammability of interior materials
SAE J369 2019	Flammability of Polymeric Interior Materials – Horizontal Test Method
ASTM D 5132 2020	Standard Test Method of Horizontal Burning rate of Polymeric Materials used in Occupant Compartments of Motor Vehicles

1.4 Fire testing of materials and components in marine equipment

IMO 2010 FTP Code Annex 1 Part 1 IMO Resolution MSC.307(88) 2010-12	Non-combustibility test
IMO 2010 FTP Code Annex 1 Part 2 IMO Resolution MSC.307(88) 2010-12	Smoke and Toxicity test
IMO 2010 FTP Code Annex 1 Part 5 IMO Resolution MSC.307(88) 2010-12	Test for surface flammability (Test for surface materials and primary deck coverings)

IMO 2010 FTP Code Annex 1 Part 7 IMO Resolution MSC.307(88) 2010-12	Test for vertically supported textiles and films *only Annex 1 and Annex 2*
IMO 2010 FTP Code Annex 1 Part 8 IMO Resolution MSC.307(88) 2010-12	Test for upholstered furniture
IMO 2010 FTP Code Annex 1 Part 9 IMO Resolution MSC.307(88) 2010-12	Test for bedding components *With the exception of the cleaning procedures set out in sections 6.1, 6.2 and 6.3*
IMO 2010 FTP Code Annex 1 Part 10, Appendix 2 IMO Resolution MSC.307(88) 2010-12	Fire Test Procedures for Heat Release, Smoke Emission and Mass Loss Rate for Materials used for furniture and other Componentes of High-Speed

1.5 Fire testing of mattresses, upholstered furniture and textiles

DIN EN ISO 12952-1 2011-01	Textiles - Assessment of the ignitability of bedding items - Part 1: Ignition source: smouldering cigarette (*Excluding Section 8: Cleaning*)
DIN EN ISO 12952-2 2011-01	Textiles - Assessment of the ignitability of bedding items - Part 2: Igniton source: match-flame equivalent (*Excluding Section 8: Cleaning*)
DIN EN 597-1 2016-03	Furniture - Assessment of the ignitability of mattressess and upholstered bed bases - Part 1: Ignition source smouldering cigarette
DIN EN 597-2 2016-03	Furniture - Assessment of the ignitability of mattresses and upholstered bed bases - Part 2: Ignition source: match flame equivalent
DIN EN 1021-1 2014-10	Furniture - Assessment of the ignitability of upholstered furniture - Part 1: Ignition source smouldering cigarette
DIN EN 1021-2 2014-10	Furniture - Assessment of the ignitability of upholstered furniture - Part 2: Ignition source match flame equivalent

DIN 66084 2021-02	Classification of burning behaviour of upholstered compounds *(withdrawn standard)* *(only Annex A)*
BS 5852 2006-03	Methods of test for assessment of the ignitability of upholstered seating by smouldering and flaming ignition sources *Section 8* *Smouldering ignition source 0 cigarette* *Section 9.2* *Butan gas flame ignition source 1*
BS 7177 2008-01	Specification for resistance to ignition of mattresses, mattress pads, divans and bed bases

1.6 Fire testing in accordance with ASTM

ASTM C 1166 2021	Standard Test Method for Flame Propagation of dense and Cellular Elastomeric Gaskets and Accessories
ASTM D 2863 2019	Standard Test Method for Measuring the Minimum Oxygen Concentration to Support Candle-Like Combustion of Plastics (Oxygen Index)
ASTM D 3675b 2022	Standard Test Method for Surface Flammability of Flexible Cellular Materials Using a Radiant Heat Energy Source
ASTM E 136 2022	Standard Test Method for Assessing Combustibility Materials using a Vertical Tube Furnace at 750 °C *(only Option B)*
ASTM E 162 2022	Standard Test Method for Surface Flammability of Materials Using a Radiant Heat Energy Source
ASTM E 648 2019	Standard Test Method for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source
ASTM E 662 2021	Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials
ASTM E 970 2017	Standard Test Method for Critical Radiant Flux of Exposed Attic Floor Insulation Using a Radiant Heat Energy Source
ASTM E 1317 2019	Standard Test Method for Flammability of Surface Finishes

ASTM E 1354 2022	Heat and visible Smoke Release Rates for Materials and Products using an Oxygen Consumption Calorimeter
ASTM E 2652 2022	Standard Test Method for Assessing Combustibility of Materials using a Tube Furnace with a Cone-shaped Airflow Stabilizer, at 750 °C
NFPA 253 2023	Standard Test Method of Test for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source

1.7 Fire testing of building materials and elements in the building trade

DIN 4102-1 1998-05	Fire behaviour of building materials and building components - Part 1: Building materials; concepts, requirements and tests *(only section 5, furnace inspection, and 6.2, without the issue of test certificates)*
DIN 4102-14 1990-05	Fire behaviour of building materials and elements; determination of the burning behaviour of floor covering systems using a radiant heat source *(withdrawn standard)*

2 Testing of the fire performance of construction products for which it is not necessary to specify the reference to a relevant harmonized technical specification (Construction Products Regulation (EU) No 305/2011, Annex V, point 3, and (EU) 2024/3110, Annex X)

EN 13823 2020+A1:2022	Reaction to fire tests for building products - Building products excluding floorings exposed to the thermal attack by a single burning item
EN 60332-1-2 2004/A11:2016	Tests on electric and optical fibre cables under fire conditions - Part 1-2: Test for vertical flame propagation for a single insulated wire or cable - Procedure for 1 kW pre-mixed flame *(withdrawn standard)*
EN ISO 1182 2020	Reaction to fire tests for products - Non-combustibility test
EN ISO 1716 2018	Reaction to fire tests for products - Determination of the gross heat of combustion (calorific value)
EN ISO 9239-1 2010	Reaction to fire tests for floorings - Part 1: Determination of the burning behaviour using a radiant heat source
EN ISO 11925-2 2020	Reaction to fire tests - Ignitability of products subjected to direct impingement of flame - Part 2: Single-flame source test **in conjunction with:** *EN 13501-1 2019* — *Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests*

The requirements set out in Article 46 of Regulation (EU) 2024/3110 for a testing laboratory, as specified in Annex V, point 3, of Regulation (EU) No 305/2011 and Annex X of Regulation (EU) 2024/3110, are met.

Abbreviations used:

ASTM	American Society for Testing and Materials
BS	Britisch Standard
DIN	Deutsches Institut für Normung e.V.
ECE	Economic Commission for Europe
EN	Europäische Norm
FMVSS	Federal Motor Vehicle Safety Standard
IEC	International Electrotechnical Commission (Internationale Elektrotechnische Kommission)
IMO	International Maritim Organisation
ISO	International Organization for Standardization (Internationale Organisation für Normung)
NFPA	National Fire Prevention Association
SAE	Society (Standard) of Automotive Engineers (Amerikanische Standardisierungs-Organisation für Kfz-Fragen)
TR/TS	Technisches Reglement / Zoll Union-(Tamozhenyj Soyuz)
VDE	Verband Deutscher Elektrotechniker

Deutsche Akkreditierungsstelle

Annex to the Accreditation Certificate according to DIN EN ISO/IEC 17025:2018

D-PL-11012-01-02

Valid from: **10.04.2024**

Date of issue: 19.05.2026

This annex is part of the Accreditation Certificate D-PL-11012-01-00.

Holder of the Accreditation Certificate:

RST Rail System Testing GmbH
Walter-Kleinow-Ring 7, 16761 Hennigsdorf

with the location

RST Rail System Testing GmbH
Walter-Kleinow-Ring 7, 16761 Hennigsdorf

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.

Test areas:
Tests in the areas of passive safety/ burning behaviour of motor vehicles and their trailers, and of systems, components and separate technical units intended for such vehicles within the scope of Regulation (EU) 2018/858

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).

Based on the authorisation granted by the Federal Office for Motor Transport in accordance with § 31 (2) EC Vehicle Approval Ordinance (EC-FGV) in conjunction with Regulation (EU) 2018/858 Article 67 Paragraph 1 Sentence 2, it is confirmed that the certificate holder is proficient in performing tests for thepurposes of DIN EN ISO/IEC 17025:2018 within the scope of (EU) 2018/858 in the following areas and complies with the technical service requirements of Category A in accordance with Regulation (EU) 2018/858 Articles 68 to 71.

Within the specified legal acts [x] and the assigned fields of expertise [xx] in accordance with the KBA's Key Figure Catalogue, without requiring prior information and approval by DAkkS, the test laboratory is permitted to use the standardised test methods or those equivalent as long as they have been specified in the legal act. The test laboratory is permitted to use the specified test methods with the currently valid status.

[xx] Areas of expertise

J = Environmental simulation

The test laboratory has an up-to-date list of all test methods associated with the flexible accreditation scope.

Tests of motor vehicles and their trailers, and of systems, components and separate technical units intended for such vehicles within the scope of Regulation (EU) 2018/858 (in accordance with KBA's Key Figure Catalogue) [x]

Passive safety		**10**	
Burning behaviour		**10-11**	
95/28/EG	Directive 95/28/EC of the EuropeanParliament and of the Council dated 24 October 1995 relating to the burning behaviour of materials used in the interior construction of certain categories of motor vehicle	10-11-01	J
UN-R 118 ÄS 04 2021-09	Uniform technical prescriptions concerning the burning behaviour and/or the capability to repel fuel or lubricant of materials used in the construction of certain categories of motor vehicles	10-11-22	J

Abbreviations used

EG	Directives of the European Economic Community
UN	United Nations

Deutsche Akkreditierungsstelle

Annex to the Accreditation Certificate D-PL-11012-01-03 according to DIN EN ISO/IEC 17025:2018

Valid from: **15.10.2024**

Date of issue: 19.05.2026

This annex is part of the Accreditation Certificate D-PL-11012-01-00.

Holder of the Accreditation Certificate:

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Walter-Kleinow-Ring 7, 16761 Hennigsdorf

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RST Rail System Testing GmbH
Walter-Kleinow-Ring 7, 16761 Hennigsdorf

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-technological tests of metallic materials and connectors for power cables, metallographic tests as well as selected chemical-analytic tests

Flexible Scope of Accreditation:

The testing laboratory is permitted to use standardised or equivalent test methods listed here with different issue dates without being required to prior inform and obtain approval from DAkkS (flexibilization according to category A).
The testing laboratory has an up-to-date list of all test methods within the flexible scope of accreditation. The list is publicly available on the website of the testing laboratory.

1 Mechanical-technological tests

1.1 Strength tests of metallic materials [Flex A]

DIN EN ISO 148-1 2017-05	Metallic materials – Charpy pendulum impact test – Part 1: Test method
DIN EN ISO 7438 2021-03	Metallic materials – Bend test
DIN EN ISO 6892-1 2020-06	Metallic materials – Tensile testing – Part 1: Method of test at room temperature
DIN EN ISO 4136 2022-09	Destructive tests on welds in metallic materials – Transverse tensile test
DIN EN ISO 5173 2012-02	Destructive tests on welds in metallic materials – Bend tests
DIN EN ISO 9016 2022-07	Destructive tests on welds in metallic materials – Impact tests – Test specimen location, notch orientation and examination
DIN EN ISO 9017 2018-04	Destructive tests on welds in metallic materials – Fracture test
DIN EN ISO 14273 2016-11	Resistance welding – Destructive testing of welds – Specimen dimensions and procedure for tensile shear testing resistance spot and embossed projection welds
DIN ISO 21194 2020-12	Elastic adhesives – Testing of adhesively bonded joints – Bead peel test

Technical rule DVS 1618 2002	Elastic Thick Layer Adhesives Used in Rail Vehicle Applications (Annex 3)

1.2 Strength tests of connectors for power cables [Flex A]

DIN EN IEC 61238-1-1 VDE 0220-238-1-1 2020-11	Compression and mechanical connectors for power cables – Part 1-1: Test methods and requirements for compression and mechanical connectors for power cables for rated voltages up to 1 kV (U_m = 1,2 kV) tested on non-insulated conductors
DIN EN IEC 61238-1-2 VDE 0220-238-1-2 2020-11	Compression and mechanical connectors for power cables – Part 1-2: Test methods and requirements for insulation piercing connectors for power cables for rated voltages up to 1 kV (U_m = 1,2 kV) tested on insulated conductors
DIN EN IEC 61238-1-3 VDE 0220-238-1-3 2020-11	Compression and mechanical connectors for power cables – Part 1-3: Test methods and requirements for compression and mechanical connectors for power cables for rated voltages above 1 kV (U_m = 1,2 kV) up to 36 kV (U_m = 42 kV) tested on non-insulated conductors

The following test method is outside the flexible scope of accreditation:

P-504-82-40-00 2022-07	Determination of the force-crosshead travel curve in the direction of tension and compression

1.3 Hardness tests of metallic materials [Flex A]

DIN EN ISO 18203 2022-07	Steel – Determination of the thickness of surface-hardened layers
DIN EN ISO 6506-1 2015-02	Metallic materials – Brinell hardness test – Part 1: Test method
DIN EN ISO 6507-1 2018-07	Metallic materials – Vickers hardness test – Part 1: Test method
DIN 50157-1 2020-11	Metallic materials – Hardness testing with portable measuring devices operating with mechanical penetration depth – Part 1: Test method

DIN EN ISO 22826 2021-05	Destructive tests on welds in metallic materials – Hardness testing of narrow joints welded by laser and electron beam (Vickers and Knoop hardness tests)
DIN EN ISO 9015-1 2011-05	Destructive tests on welds in metallic materials – Hardness testing – Part 1: Hardness test on arc welded joints
DIN EN ISO 9015-2 2016-10	Destructive tests on welds in metallic materials – Hardness testing – Part 2: Microhardness testing of welded joints

2 Metallographic tests [Flex A]

DIN EN ISO 643 2020-06	Steels – Micrographic determination of the apparent grain size
DIN EN ISO 945-1 2019-10	Microstructure of cast irons – Part 1: Graphite classification by visual analysis
DIN EN ISO 1463 2021-08	Metallic and oxide coatings – Measurement of coating thickness – Microscopical method
DIN EN ISO 3887 2018-05	Steels – Determination of the depth of decarburization
DIN EN 10247 2017-09	Micrographic examination of the non-metallic inclusion content of steels using standard pictures
DIN 50602 1985-09	Metallographic examination; microscopic examination of special steels using standard diagrams to assess the content of non-metallic inclusions
DIN EN ISO 17639 2022-05	Destructive tests on welds in metallic materials – Macroscopic and microscopic examination of welds

The following test methods are outside the flexible scope of accreditation:

P-504-59-40 2022-05	Quantitative metallography – Interactive measurement of geometric parameters
P-504-60-40 2021-10	Quantitative metallography – Determination of phase fractions
P-504-62-40 2022-03	Element analysis using dispersive X-ray specroscopy

3 Chemical analysis

P-504-01-40 2021-10	Spectrometric analysis of iron, aluminium and copper
P-504-57-40 2017-05	Carbon and sulphur determination using infrared adsorption

Abbreviations used:

DIN	Deutsches Institut für Normung e. V. – German institute for standardization
DVS	Deutscher Verband für Schweißen und verwandte Verfahren e. V. – German Association for Welding and Related Processes
EN	Europäische Norm – European Standard
IEC	International Electrotechnical Commission
ISO	International Organization for Standardisation
P	RST Rail System Testing GmbH Inhouse Procedure
VDE	Verband Deutscher Elektrotechniker – Association of German Electrical Engineers

Deutsche Akkreditierungsstelle

Annex to the Accreditation Certificate D-PL-11012-01-04 according to DIN EN ISO/IEC 17025:2018

Valid from: **12.08.2025**

Date of issue: 19.05.2026

This annex is part of the Accreditation Certificate D-PL-11012-01-00.

Holder of the Accreditation Certificate:

RST Rail System Testing GmbH
Walter-Kleinow-Ring 7, 16761 Hennigsdorf

with the location

RST Rail System Testing GmbH
Walter-Kleinow-Ring 7, 16761 Hennigsdorf

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.

Manual non-destructive testing (radiographic testing, penetrant testing, visual testing and magnetic testing)

The testing laboratory is permitted to use standardised or equivalent test methods listed here with different issue dates without being required to prior inform and obtain approval from DAkkS (flexibilization according to category A).
The testing laboratory has an up-to-date list of all test methods within the flexible scope of accreditation. The list is publicly available on the website of the testing laboratory.

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1 Non-destructive testing

1.1 Radiographic testing

DIN EN ISO 5579 2014-04	Non-destructive testing - Radiographic testing of metallic materials using film and X- or gamma rays - Basic rules
DIN EN ISO 17636-1 2022-10	Non destructive testing of welds - Radiographic testing - Part 1: X- and gamma-ray techniques with film
DIN EN 12681-1 2018-02	Founding - Radiographic testing - Part 1: Film techniques

1.2 Magnetic testing

DIN EN ISO 9934-1 2017-03	Non-destructive testing - Magnetic particle testing - Part 1: General principles
DIN EN ISO 17638 2017-03	Non-destructive testing of welds - Magnetic particle testing
DIN EN 1369 2013-01	Founding - Magnetic particle testing
DIN EN 10228-1 2016-10	Non-destructive testing of steel forgings - Part 1: Magnetic particle inspection

1.3 Penetrant testing

DIN EN ISO 3452-1 2022-02	Non-destructive testing - Penetrant testing - Part 1: General principles
DIN EN 1371-1 2012-02	Founding - Liquid penetrant testing - Part 1: Sand, gravity die and low pressure die castings
DIN EN 1371-2 2015-04	Founding - Liquid penetrant testing - Part 2: Investment castings
DIN EN 10228-2 2016-10	Non-destructive testing of steel forgings - Part 2: Penetrant testing

1.4 Visual testing

DIN EN ISO 17637 2017-04	Non-destructive testing of welds - Visual testing of fusion-welded joints
DIN EN 1370 2012-03	Founding - Examination of surface condition
DIN EN 13018 2016-06	Non-destructive testing - Visual testing - General principles

1.5 Weld testing (non-destructive testing)

AD 2000-Technical bulletin HP 5/3 Annex 1 2020-12	Manufacture and testing of pressure vessels - Non-destructive testing of welded joints - Minimum requirements for non-destructive testing methods (*here: Section 4 (MT), Performance of all procedures in accordance with referenced test standards*)

Abbreviations used:

AD HP	Pressure vessel working committee, production and testing
DIN	German Institute of Standardization
EN	European Standard
IEC	International Electrotechnical Commission
ISO	International Organization for Standardization

Deutsche Akkreditierungsstelle

Annex to the Accreditation Certificate D-PL-11012-01-05 according to DIN EN ISO/IEC 17025:2018

Valid from: **19.09.2025**

Date of issue: 19.05.2026

This annex is part of the Accreditation Certificate D-PL-11012-01-00.

Holder of the Accreditation Certificate:

RST Rail System Testing GmbH
Walter-Kleinow-Ring 7, 16761 Hennigsdorf

with the location

RST Rail System Testing GmbH
Walter-Kleinow-Ring 7, 16761 Hennigsdorf

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.

Test areas:

Environmental testing (climate tests; mechanical-dynamic tests; combined tests vibrations/impact with climate tests; salt mist tests; harmful gas tests with H2S, SO2, Cl2, NO2; dust tests; water tests; sun simulation; chemical resistance tests on semi-finished products, elements, components and products)

Flexibler Akkreditierungsbereich:
Dem Prüflaboratorium ist innerhalb der gekennzeichneten Prüfbereiche, ohne dass es einer vorherigen Information und Zustimmung der DAkkS bedarf, die freie Auswahl von genormten oder ihnen gleichzusetzenden Prüfverfahren gestattet (Flexibilisierung nach Kategorie B).

Die aufgeführten Prüfverfahren sind beispielhaft. Das Prüflaboratorium verfügt über eine aktuelle Liste aller Prüfverfahren im flexiblen Akkreditierungsbereich. Die Liste ist öffentlich verfügbar auf der Webpräsenz des Prüflaboratoriums.

Area	Standard / Inhouse procedure / Version	Title of the standard or inhouse procedure (if applicable, specify deviations from / modifications to standardised procedures)	Test area / Restriction
Environmental simulation	ISO 16750-5 2010-04	Road vehicles – Environmental; conditions and testing for electrical and electronic equipment – Part 5: chemical loads	
	ISO 20653 2013-02	Road vehicles - Degrees of protection (IP code) – Protection of electrical equipment against foreign objects, water and access	
	DIN EN ISO 2409 2020-12	Paints and varnishes – Cross-cut test	
	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 2813 2015-02	Paints and varnishes – Determination of gloss value at 20°, 60° and 85°	
	DIN EN ISO 4892-2 2021-11	Plastics – Methods of exposure to laboratory light sources – Part 2: Xenon-arc lamps	
	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 6988 1997-03	Metallic and other non-organic coatings – Sulphur dioxide test with general condensation of moisture *(withdrawn standard)*	

Area	Standard / Inhouse procedure / Version	Title of the standard or inhouse procedure (if applicable, specify deviations from / modifications to standardised procedures)	Test area / Restriction
	DIN EN ISO 22479 2022-08	Corrosion of metals and alloys – Sulphur dioxide test in a humid atmosphere (fixed gas method)	
	DIN EN ISO 9227 2023-03	Corrosion tests in artificial atmospheres – Salt spray tests	
	DIN EN 50155, VDE 0115-200 2022-06	Railway applications – Rolling stock – Electronic equipment	Only: 13.4.1, 13.4.4, 13.4.5, 13.4.6, 13.4.7, 13.4.8, 13.4.10, 13.4.11, 13.4.12 und 13.4.13
	DIN EN 20105-A02 1994-10	Textiles – Tests for colour fastness – Part A02: Grey scale for assessing change in colour	
	DIN EN 60068-2-1, VDE 0468-2-1 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 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	
	DIN EN 60068-2-6 2008-10	Environmental testing – Part 2-6: Tests – Test Fc: Vibration (sinusoidal)	
	DIN EN IEC 60068-2-11, VDE 0468-2-11 2022-10	Environmental testing – Part 2-11: Tests – Test Ka: Salt mist	
	DIN EN IEC 60068-2-13, VDE 0468-2-13 2022-11	Environmental testing – Part 2-13: Tests – Test M: Low air pressure	
	DIN EN 60068-2-14, VDE 0468-2-14 2010-04	Environmental testing – Part 2-14: Tests – Test N: Change of temperature	

Area	Standard / Inhouse procedure / Version	Title of the standard or inhouse procedure (if applicable, specify deviations from / modifications to standardised procedures)	Test area / Restriction
	DIN EN 60068-2-18, VDE 0468-2 2018-01	Environmental testing – Part 2-18: Tests – Test R and guidance: Water	Only Test Ra; Method Ra2, Test Rb Method Rb1.2 und Rb2 und Test Rc; Method Rc1
	DIN EN 60068-2-27, VDE 0468-2-27 2010-02	Environmental testing – Part 2-27: Tests – Test Ea and guidance: Shock	
	DIN EN 60068-2-30 2006-06	Environmental testing – Part 2-30: Tests – Test Db: Damp heat, cyclic (12 h + 12 h cycle)	
	DIN EN IEC 60068-2-38, VDE 0468-2-38 2022-09	Environmental testing – Part 2-38: Tests – Test Z/AD: Composite temperature/humidity cyclic test	
	DIN EN 60068-2-42 2004-04	Environmental testing – Part 2-42: Tests – Test Kc: Sulphur dioxide test for contacts and connections	
	DIN EN 60068-2-43 2004-04	Environmental testing – Part 2-43: Tests – Test Kd: Hydrogen sulphide test for contacts and connections	
	DIN EN IEC 60068-2-52, VDE 0468-2-52 2018-08	Environmental testing – Part 2-52: Tests – Test Kb: Salt mist, cyclic (sodium chloride solution)	
	DIN EN 60068-2-53, VDE 0468-2-53 2011-02	Environmental testing – Part 2-53: Tests – Tests and guidance – Combined climatic (temperature/humidity) and dynamic (vibration/shock) tests	
	DIN EN 60068-2-57, VDE 0468-2-57 2015-10	Environmental testing – Part 2-57: Tests Test Ff: Vibration – Time-history and sine-beat method	

Area	Standard / Inhouse procedure / Version	Title of the standard or inhouse procedure (if applicable, specify deviations from / modifications to standardised procedures)	Test area / Restriction
	DIN EN 60068-2-60, VDE 0468-2-60 2016-06	Environmental testing – Part 2-60: Tests – Test Ke: Flowing mixed gas corrosion test	
	DIN EN 60068-2-64, VDE 0468-2-64 2020-09	Environmental testing – Part 2-64: Tests – Test Fh: Vibration, broadband random and guidance	
	DIN EN 60068-2-67, VDE 0468-2-67 2020-08	Environmental testing – Part 2-67: Tests – Test Cy: Damp heat, steady state, accelerated test primarily intended for components	
	DIN EN 60068-2-68 1997-02	Environmental testing – Part 2: Tests – Test L: Dust and sand	Only Test La; Method La2 and Test Lc, Method Lc1
	DIN EN 60068-2-75, VDE 0468-2-75 2015-08	Environmental testing – Part 2-75: Tests – Test Eh: Hammer tests	
	DIN EN 60068-2-78 2014-02	Environmental testing – Part 2-78: Tests – Test Cab: Damp heat, steady state	
	DIN EN 60068-2-80 2006-05	Environmental testing – Part 2-80: Tests – Test Fi: Vibration – Mixed mode	
	DIN EN 60255-21-1 1996-05	Electrical relays – Part 21: Vibration, shock, bump and seismic tests on measuring relays and protection equipment; Section 1: Vibration tests (sinusoidal)	
	DIN EN 60255-21-2 1996-05	Electrical relays – Part 21: Vibration, shock, bump and seismic tests on measuring relays and protection equipment; Section 2: Shock and bump tests	

Area	Standard / Inhouse procedure / Version	Title of the standard or inhouse procedure (if applicable, specify deviations from / modifications to standardised procedures)	Test area / Restriction
	DIN EN 60255-21-3 1995-11	Electrical relays – Part 21: Vibration, shock, bump and seismic tests on measuring relays and protection equipment; Section 3: Seismic tests	
	DIN EN 60529, VDE 0470-1 2014-09	Degrees of protection provided by enclosures (IP Code)	
	DIN EN 61373, VDE 0115-106 2011-04	Railway applications – Rolling stock equipment – Shock and vibration tests	
	DIN EN 61439-1, VDE 0660-0600-1 2021-10	Low-voltage switchgear and controlgear assemblies – Part 1: General rules	Only Items 10.2.2; 10.2.3; 10.2.6 and 10.3
	DIN EN 61439-5 VDE 0660-600-5 2015-10	Low-voltage switchgear and controlgear assemblies – Part 5: Assemblies for power distribution in public networks	Only Items 10.2.2; 10.2.3 and 10.2.6
	DIN EN 61646, VDE 0126-32 2009-03	Thin-film terrestrial photovoltaic (PV) modules – Design qualification and type approval in accordance with Items 10.1; 10.3; 10.11; 10.12; 10.13; 10.14; 10.15; 10.16; 10.17; 10.18 *(withdrawn standard)*	
	DIN EN 62208, VDE 0660-511 2012-06	Empty enclosures for low-voltage switchgear and controlgear assemblies – General requirements	Only Item 9
	DIN EN 61701 2012-10	Photovoltaic (PV) modules – Salt mist corrosion testing	
	DIN EN 62262 VDE 0470-100 2022-02	Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code)	

Area	Standard / Inhouse procedure / Version	Title of the standard or inhouse procedure (if applicable, specify deviations from / modifications to standardised procedures)	Test area / Restriction
	DIN EN 62271-1 VDE 0671-1 2018-05	High-voltage switchgear and controlgear – Part 1: Common specifications for alternating current switchgear and controlgear	Only Section 7.7 – Verification of the protection Section 7.10 – Additional tests on auxiliary and control circuits
	DIN EN 62271-100 VDE 0671-100 2022-12	High-voltage switchgear and controlgear – Part 100: Alternating-current circuit-breakers	Only Section 6.7 – Verification of the protection Section 6.10 – Additional tests on auxiliary and control circuits Section 6.101 – Mechanical tests and climate tests

Area	Standard / Inhouse procedure / Version	Title of the standard or inhouse procedure (if applicable, specify deviations from / modifications to standardised procedures)	Test area / Restriction
	DIN EN 62271-102 VDE 0671-102 2019-03	High-voltage switchgear and controlgear – Part 102: Alternating current disconnectors and earthing switches	Only Section 7.7 – Verification of the protection Section 7.10 – Additional tests on auxiliary and control circuits Section 7.102 – Operating and mechanical endurance tests Section 7.103 – Operation under severe ice conditions Section 7.105 – Tests to verify the proper functioning of the position-indicating device
	DIN EN 62271-103 VDE 0671-103 2012-04	High-voltage switchgear and controlgear – Part 103: Alternating current switches for rated voltages above 1 kV up to and including 52 kV	Only Section 6.7 – Verification of the protection Section 6.10 – Additional tests on auxiliary and control circuits Section 6.102 – Mechanical tests and climate tests

Area	Standard / Inhouse procedure / Version	Title of the standard or inhouse procedure (if applicable, specify deviations from / modifications to standardised procedures)	Test area / Restriction
	DIN EN 62271-105 VDE 0671-105 2013-08	High-voltage switchgear and controlgear – Part 105: Alternating current switch-fuse combinations for rated voltages above 1 kV up to and including 52 kV	Only Section 6.7 – Verification of the protection Section 6.10 – Additional tests on auxiliary and control circuits Section 6.102 – Mechanical operation tests Section 6.103 – Mechanical shock tests on fuses
	DIN EN 62271-200 VDE 0671-200 2012-08	High-voltage switchgear and controlgear – Part 200: AC metal-enclosed switchgear and controlgear for rated voltages above 1 kV and up to and including 52 kV	Only Section 6.7 – Verification of the protection Section 6.10 – Additional tests on auxiliary and control circuits Section 6.102 – Mechanical operation tests Section 6.103 – Pressure withstand tests for gas-filled compartments
	DIN 75220 1992-11	Ageing of automotive components in solar simulation units	
	DIN 50018 2013-05	Testing in a saturated atmosphere in the presence of sulphur dioxide	
	ASTM B 117 2019	Salt spray test	

Area	Standard / Inhouse procedure / Version	Title of the standard or inhouse procedure (if applicable, specify deviations from / modifications to standardised procedures)	Test area / Restriction
	RTCA/DO-160G 2010-12	Environmental Conditions and Test Procedures for Airborne Equipment	Only Section 3: Conditions of Test Section 4: Temperature and Altitude Section 5: Temperature Variation Section 6: Humidity Section 7: Operational Shocks and Crash Safety Section 8: Vibration Section 10: Waterproofness Section 11: Fluids Susceptibility Section 12: Sand and Dust Section 14: Salt Spray
	DNV GL-CG-0339 2015-11	Environmental test specification for electrical, electronic and programmable equipment and systems	
	Lloyd's Register 1996	LR TYPE APPROVAL SYSTEM - Test Specification Number 1 - Section 1 to Section 20 - Performance and Environmental test specification for control and electrical products (environmentally tested) to be used in marine and offshore applications *(withdrawn)*	

Area	Standard / Inhouse procedure / Version	Title of the standard or inhouse procedure (if applicable, specify deviations from / modifications to standardised procedures)	Test area / Restriction
	MIL-STD-810 H 2019-01	Resistance of defence material to environmental factors -Environmental test methods and engineering guidelines	Only Method 500.6 Low Pressure (Altitude) 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) Method 506.6 Rain Method 507.6 Humidity Method 509.7 Salt Fog Method 510.7 Sand and Dust Method 512.6 Immersion Method 514.8 Vibration Method 516.8 Shock
	VW PV 1200 2022-11	Vehicle parts – Test of resistance to climate change (+80/-40) °C	
	VW PV 1209 2016-02	Components with a zinc or zinc alloy coating and aluminium components (e.g. heat exchanger, refrigerant line) – Corrosion test (climate corrosion change test)	
	VW PV 1210 2016-02	Automotive bodies and components – Corrosion testing	

Area	Standard / Inhouse procedure / Version	Title of the standard or inhouse procedure (if applicable, specify deviations from / modifications to standardised procedures)	Test area / Restriction
	VW 80000 2022-12	Electric and electronic components in motor vehicles up to 3.5 t – General requirements, test requirements and tests	M-01 Free fall M-03 Dust test M-04 Vibration test M-05 Mechanical shock M-06 Continuous mechanical shock K-01 Storage at low/high temperatures K-02 Incremental temperature test K-03 Operation at low temperatures K-05 Thermal shock (component) K-06 Salt spray mist test with operation, exterior K-07 Salt spray mist test with operation, interior K-08 Damp heat, cyclic K-09 Damp heat, cyclic (with frost) K-10 Water protection – IPX0 to IPX6K K-11 High-pressure cleaning/pressure washing K-14 Damp heat, constant

Area	Standard / Inhouse procedure / Version	Title of the standard or inhouse procedure (if applicable, specify deviations from / modifications to standardised procedures)	Test area / Restriction
			K-16 Thermal shock (without enclosure) K-17 Solar radiation K-18 Harmful gas test K-19 Climate test for components with waterproof enclosures C-01 Chemical tests
	DIN EN ISO 105-A05 1997-07	Textiles – Tests for colour fastness – Part A05: Instrumental assessment of change in colour for determination of grey scale rating	
	DIN EN ISO 3668 2020-05	Paints and varnishes – Visual comparison of colour of paints	
	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	

Area	Standard / Inhouse procedure / Version	Title of the standard or inhouse procedure (if applicable, specify deviations from / modifications to standardised procedures)	Test area / Restriction
	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 2023-03	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 4628-6 2011-12	Paints and varnishes – Evaluation of degradation of coatings – Designation of quantity and size of defects, and of intensity of uniform changes in appearance – Part 6: Assessment of degree of chalking by tape method	
	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	
	DIN EN ISO 11664-4 2020-03	Colorimetry – Part 4: CIE 1976 L*a*b* colour space	
	DIN 53236 2018-02	Colouring materials – Conditions of measurement and evaluation for the determination of colour differences for paint coatings, similar coatings and plastics	
	DIN IEC 60060-1 VDE 0432- 1 2011-10	High-voltage test techniques – Part 1: General definitions and test requirements	Only Items 4.3.5 and 5.3
	DIN EN 60243-1 VDE 0303-21 2014-01	Electric strength of insulating materials – Test methods – Part 1: Tests at power frequencies	

Area	Standard / Inhouse procedure / Version	Title of the standard or inhouse procedure (if applicable, specify deviations from / modifications to standardised procedures)	Test area / Restriction
	DIN EN 60243-2 VDE 0303-22 2014-08	Electric strength of insulating materials – Test methods – Part 2: Additional requirements for tests using direct voltage	
	DIN EN 60270, VDE 0434 2016-11	High-voltage test techniques – Charge-based measurement of partial discharges	
	DIN VDE 0110-20 1990-08	Insulation co-ordination for equipment within low-voltages systems – Partial discharge tests – Application guide	

Verwendete Abkürzungen:

ASTM	American Society for Testing and Materials
DIN	Deutsches Institut für Normung e.V.
EN	Europäische Norm
IEC	International Electrotechnical Commission (Internationale Elektrotechnische Kommission)
ISO	International Organization for Standardization (Internationale Organisation für Normung)
MIL-STD	Military Standard
RTCA	Radio Technical Commission for Aeronautics
UIC	International union of railways (Internationaler Eisenbahnverband)
VDE	Verband Deutscher Elektrotechniker