DAkkS
Deutsche
Akkreditierungsstelle

Accreditation

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

DEKRA Incos GmbH
Nicolaus-Otto-Ring 10, 85098 Großmehring

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 partial accreditation certificate only applies in connection with the notice of 19.12.2024 with accreditation number D-PL-19221-01.
It consists of this cover sheet, the reverse side of the cover sheet and the following annex with a total of 11 pages.

Registration number of the partial accreditation certificate: **D-PL-19221-01-01**
It is a part of the accreditation certificate: D-PL-19221-01-00.

Berlin, 12.08.2024
Dr. Dirk Tscharntke
Head of Technical Unit

Translation issued:
19.12.2024
Dr. Dirk Tscharntke
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).

See notes overleaf

Deutsche Akkreditierungsstelle GmbH

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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

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Annex to the Partial Accreditation Certificate D-PL-19221-01-01 according to DIN EN ISO/IEC 17025:2018

Valid from: **12.08.2024**

Date of issue: 19.12.2024

This annex is a part of the accreditation certificate D-PL-19221-01-00.

Holder of partial accreditation certificate:

DEKRA Incos GmbH
Nicolaus-Otto-Ring 10, 85098 Großmehring

with the locations

DEKRA Incos GmbH
Nicolaus-Otto-Ring 10, 85098 Großmehring

DEKRA Incos GmbH
Kesselbodenstraße 6, 85391 Allershausen

DEKRA Incos GmbH
Fettweisstraße 2d, 76189 Karlsruhe

DEKRA Incos GmbH
Mausegatt 12, 47228 Duisburg

DEKRA Incos GmbH
Im Industriegelände 1, 33775 Versmold

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

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 tests (radiogaphic testing, ultrasonic testing, liquid penetrant testing, visual testing, eddy current testing, leak testing and magnetic particle testing, magnet flux leakage testing) and semi-automatic serial ultrasonic testing of metallic materials in the metal manufacturing and processing industry as well as in the installation engineering and plant construction and radiographic testing, ultrasonic testing, liquid penetrant testing and visual testing of plastics and concrete and coating thickness measurements

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 methods within the flexible scope of accreditation.

The test methods are indicated with the following symbols of the locations at which they are carried out:

AL = Allershausen	DU I = Duisburg I	
KA = Karlsruhe	IN = Ingolstadt	VE = Versmold

1	**Radiographic testing ***	**AL, DU I, KA, GRO, VE**
ASME BPVC.V-2023 2023	ASME Boiler and Pressure Vessel Code Section V: Nondestructive Examination (here: *Article 2: Radiographic Examination*)	
DIN EN ISO 10893-6 2019-06	Non-destructive testing of steel tubes - Part 6: Radiographic testing of the weld seam of welded steel tubes for the detection of imperfections	
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 ISO 17636-2 2023-05	Non-destructive testing of welds - Radiographic testing - Part 2: X- and gamma-ray techniques with digital detectors	

DIN EN ISO 20769-1 2018-12	Non-destructive testing - Radiographic inspection of corrosion and deposits in pipes by X- and gamma rays - Part 1: Tangential radiographic inspection
DIN EN ISO 20769-2 2018-12	Non-destructive testing - Radiographic inspection of corrosion and deposits in pipes by X- and gamma rays - Part 2: Double wall radiographic inspection
DIN EN ISO 16371-2 2019-04	Non-destructive testing - Industrial computed radiography with storage phosphor imaging plates - Part 2: General principles for testing of metallic materials using X-rays and gamma rays
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 12681-1 2018-02	Founding - Radiographic testing - Part 1: Film techniques
DIN EN 12681-2 2018-02	Founding - Radiographic testing - Part 2: Techniques with digital detectors
DIN EN 16407-1 2014-04	Non-destructive testing - Radiographic inspection of corrosion and deposits in pipes by X- and gamma rays - Part 1: Tangential radiographic inspection
DIN 25435-7 2021-06	In-service inspections for primary coolant circuit components of light water reactors - Part 7: Radiographic testing
ASTM E94/E94M-22 2022	Standard Guide for Radiographic Examination Using Industrial Radiographic Film
ASTM E1030/E1030M-21 2021	Standard Practice for Radiographic Examination of Metallic Castings
ASTM E1032-19 2019	Standard Practice for Radiographic Examination of Weldments Using Industrial X-Ray Film

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

Only at VE

0881-09-PA 2022-03	Radiographic testing on plastics

2	Ultrasonic testing *	AL, DU I, KA, GRO, VE
AD 2000-Merkblatt HP 5/3 2020-12	Manufacture and testing of joints - Non-destructive testing of welded joints	
ASME BPVC.V-2023 2023	ASME Boiler and Pressure Vessel Code Section V: Nondestructive Examination (here: *Article 4: Ultrasonic Examination Methods for Welds* *Article 5: Ultrasonic Examination Methods for Materials*)	
DIN EN ISO 17640 2019-02	Non-destructive testing of welds - Ultrasonic testing - Techniques, testing levels, and assessment	
DIN EN ISO 16826 2014-06	Non-destructive testing - Ultrasonic testing - Examination for discontinuities perpendicular to the surface	
DIN EN ISO 16827 2014-06	Non-destructive testing - Ultrasonic testing - Characterization and sizing of discontinuities	
DIN EN ISO 16828 2014-06	Non-destructive testing - Ultrasonic testing - Time-of-flight diffraction technique as a method for detection and sizing of discontinuities	
DIN EN 10160 1999-09	Ultrasonic testing of steel flat product of thickness equal to or greater than 6 mm (reflection method)	
DIN EN 10228-3 2016-10	Non-destructive testing of steel forgings - Part 3: Ultrasonic testing of ferritic or martensitic steel forgings	
DIN EN 10228-4 2016-10	Non-destructive testing of steel forgings - Part 4: Ultrasonic testing of austenitic and austenitic-ferritic stainless steel forgings	
DIN EN 10308 2002-03	Non-destructive testing - Ultrasonic testing of steel bars	
DIN EN 12680-1 2003-06	Founding - Ultrasonic examination - Part 1: Steel castings for general purposes	
DIN EN 12680-2 2003-06	Founding - Ultrasonic examination - Part 2: Steel castings for highly stressed components	
DIN EN 12680-3 2012-02	Founding - Ultrasonic testing - Part 3: Spheroidal graphite cast iron castings	

DIN EN ISO 16809 2020-02	Non-destructive testing - Ultrasonic thickness measurement
DIN EN ISO 17405 2022-08	Non-destructive testing - Ultrasonic testing - Technique of testing claddings produced by welding, rolling and explosion
SEP 1914 1983-08	Non-destructive testing of fusion-welded seams in pipes of stainless steels
SEP 1915 1994-09	Non-destructive testing of steel tubes of longitudinal defects
SEP 1916 1989-12	Non-destructive testing of fusion-welded ferritic steel tubes
SEP 1918 1992-01	Non-destructive testing of steel tubes of transverse defects
SEP 1919 1977-06	Ultrasonic testing for laminations of pipes of creep-resistant steels
SEP 1920 1984-12	Ultrasonic testing of rolled semi-finished products on internal material discontinuities
SEP 1922 1985-07	Ultrasonic testing of forgings of ferritic steel
SEP 1923 2009-02	Ultrasonic testing of steel forgings to stringent standards, in particular for components in turbine and generator systems
SEP 1924 1989-10	Founding - Ultrasonic examination - Spheroidal graphite cast iron castings
DIN EN ISO 16810 2014-07	Non-destructive testing - Ultrasonic testing - General principles
DIN EN 10307 2002-03	Non-destructive testing - Ultrasonic testing of austenitic and austenitic-ferritic stainless steels flat products of thickness equal to or greater than 6 mm (reflection method)
ASTM E164-19 2019	Standard Practice for Contact Ultrasonic Testing of Weldments
ASTM E213-22 2022	Standard Practice for Ultrasonic Testing of Metal Pipe and Tubing

ASTM E587-15 2015	Standard Practice for Ultrasonic Angle-Beam Contact Testing

Only at VE

DIN EN ISO 10893-8 2020-10	Non-destructive testing of steel tubes - Part 8: Automated ultrasonic testing of seamless and welded steel tubes for the detection of laminar imperfections
DIN EN ISO 10893-10 2020-10	Non-destructive testing of steel tubes - Part 10: Automated full peripheral ultrasonic testing of seamless and welded (except submerged arc-welded) steel tubes for the detection of longitudinal and/or transverse imperfections
DIN EN ISO 10893-11 2020-10	Non-destructive testing of steel tubes - Part 11: Automated ultrasonic testing of the weld seam of welded steel tubes for the detection of longitudinal and/or transverse imperfections
DIN EN ISO 10893-12 2020-10	Non-destructive testing of steel tubes - Part 12: Automated full peripheral ultrasonic thickness testing of seamless and welded (except submerged arc-welded) steel tubes

only at AL, GRO, DU I, VE

DIN EN ISO 13588 2019-07	Non-destructive testing of welds - Ultrasonic testing - Use of automated phased array technology

only at GRO und DU

DIN EN ISO 10863 2020-09	Non-destructive testing of welds - Ultrasonic testing - Use of time-of-flight diffraction technique (TOFD)
DIN EN ISO 20601 2019-04	Non-destructive testing of welds - Ultrasonic testing - Use of automated phased array technology for thin-walled steel components

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

Only at VE

0878-09-PA 2022-03	Ultrasonic testing of weld spots
0879-09-PA 2022-03	Ultrasonic testing of plastics

3 Magnetic particle testing * AL, DU I, KA, GRO, VE

ASME BPVC.V-2023 2023	ASME Boiler and Pressure Vessel Code Section V: Nondestructive Examination (here: *Article 7: Magnetic Particle Examination*)
DIN EN ISO 9934-1 2017-03	Non-destructive testing - Magnetic particle testing - Part 1: General principles
DIN EN ISO 10893-5 2011-07	Non-destructive testing of steel tubes - Part 5: Magnetic particle inspection of seamless and welded ferromagnetic steel tubes for the detection of surface imperfections
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
DIN 25435-2 2021-05	In-service inspections for primary coolant circuit components of light water reactors - Part 2: Magnetic particle and penetrant inspection
ASTM E709-21 2021	Standard Guide for Magnetic Particle Testing
ASTM E1444/E1444M-22 2022	Standard Practice for Magnetic Particle Testing

3.1 Magnetic flux leakage test * AL, DU I, KA, GRO, VE

ASME BPVC.V-2023 2023	ASME Boiler and Pressure Vessel Code Section V: Nondestructive Examination (here: *Article 16: Magnetic flux leakage (MFL) examination*)
ASTM B499-09(2014) 2014	Standard Test Method for Measurement of Coating Thickness by the Magnetic Method: Nonmagnetic Coatings on Magnetic Basis Metals
ASTM E570-20 2020	Standard Practice for Flux Leakage Examination of Ferromagnetic Steel Tubular Products

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

0882-09-PA 2022-03	Measurement of fissure depth
0880-09-PA 2022-03	Magnetic flux leak testing, pipe scan, hand scan

Only at DU I, GRO

0987-09-PA 2022-02	Test method for testing of tank bottom Magnetic Eddy Current (MEC)

4 Liquid penetrant testing * — AL, DU I, KA, GRO, VE

ASME BPVC.V-2023 2023	ASME Boiler and Pressure Vessel Code Section V: Nondestructive Examination (here: *Article 6: Liquid Penetrant Examination*)
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 inspection - Part 2: Investment castings
DIN EN 10228-2 2016-10	Non-destructive testing of steel forgings - Part 2: Penetrant testing
ASTM E165/E165M-18 2016	Standard Practice for Liquid Penetrant Testing for General Industry
ASTM E1417/E1417M-16 2016	Standard Practice for Liquid Penetrant Testing

5 Visual testing * — AL, DU I, KA, GRO, VE

ASME BPVC.V-2023 2023	ASME Boiler and Pressure Vessel Code Section V: Nondestructive Examination (here: *Article 9: Visual examination*)

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
DIN 25435-4 2014-01	In-service inspections for primary coolant circuit components of light water reactors - Part 4: Visual inspection

6 Eddy current testing * AL, DU I, KA, GRO

DIN EN ISO 15549 2019-10	Non-destructive testing - Eddy current testing - General principles
DIN EN ISO 10893-1 2020-10	Non-destructive testing of steel tubes - Part 1: Automated electromagnetic testing of seamless and welded (except submerged arc-welded) steel tubes for the verification of hydraulic leaktightness
DIN EN ISO 17643 2015-12	Non-destructive testing of welds - Eddy current examination of welds complex plane analysis

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

Only at GRO, DU I

0084-09-PA 2014-02	Test method for testing of tank bottom Magnetic Eddy Current (MEC)

7 Leak testing * AL, DU I, KA, GRO

DIN EN 1593 1999-11	Non-destructive testing - Leak testing - Bubble emission techniques
DIN EN 1779 1999-10	Non-destructive testing - Leak testing - Criteria for the method and technique selection
DIN EN 13184 2001-07	Non-destructive testing - Leak test - Pressure change method
DIN EN ISO 20485	Non-destructive testing - Leak testing - Tracer gas method

2018-05

8	Measurement of coating thickness *	DU I, GRO, VE
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 basis materials - Measurement of coating thickness - Amplitude-sensitive eddy current method	

9	Test standards with multiple NDT test methods *	AL, DU I, KA, GRO, VE
DIN EN ISO 17635 2017-04	Non-destructive testing of welds - General rules for metallic materials	
DIN 27201-7 2020-06	State of railway vehicles - Basic principles and production technology - Part 7: Non-destructive test	
DVGW GW 350 2015-06	Welding Joints of Steel Pipelines for Gas and Water Supply - Manufacturing, Testing and Evaluation	
DVS 2206 [1] 2016-08	Non-destructive tests on tanks, apparatus and piping made o thermoplastics - Dimensional checking and visual inspection	
KTA 3201.3 2017-11	Components of the Reactor Coolant Pressure Boundary of Light Water Reactors - Part 3: Manufacture	
KTA 3201.4 2016-11	Components of the reactor coolant pressure boundary of light water reactors - Part 4: Inservice inspections and operational monitoring	
KTA 3211.3 2017-11	Pressure- and activity-retaining components of systems outside the primary circuit - Part 3: Manufacture	
KTA 3211.4 2017-11	Pressure and Activity Retaining Components of Systems Outside the Primary Circuit - Part 4: Inservice Inspections and Operational Monitoring	

[1] not within the scope of flexible accreditation

DAkkS Deutsche Akkreditierungsstelle

Abbreviations used:

AD	Arbeitsgemeinschaft Druckbehälter
ASME BPVC	American Society for Metrological Engineering - Boiler & Pressure Vessel Code
ASTM	American Society for Testing Materials
DIN	Deutsches Institut für Normung e.V. - German institute for standardization
DVGW	Deutsche Vereinigung des Gas- und Wasserfachs
DVS	Deutscher Verband für Schweißen und verwandte Verfahren e. V.
EN	Europäische Norm - European Standard
IEC	International Electrotechnical Commission
ISO	International Organization for Standardization
KTA	Kerntechnischer Ausschuss
PA	Prüfanweisung der DEKRA Incos GmbH
SEP	Stahl-Eisen-Prüfblätter vom Verein Deutscher Eisenhüttenleute