

# 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 12.08.2024 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 7 pages.

Registration number of the partial accreditation certificate: **D-PL-19221-01-02**

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

Berlin, 12.08.2024

Dr.-Ing. Tobias Poeste  
Head of Technical Unit

Translation issued:  
26.11.2024



Dr.-Ing. Tobias Poeste  
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](http://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  
Spittelmarkt 10  
10117 Berlin

Office Frankfurt am Main  
Europa-Allee 52  
60327 Frankfurt am Main

Office Braunschweig  
Bundesallee 100  
38116 Braunschweig

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](http://www.european-accreditation.org)

ILAC: [www.ilac.org](http://www.ilac.org)

IAF: [www.iaf.nu](http://www.iaf.nu)

# Deutsche Akkreditierungsstelle

## Annex to the Partial Accreditation Certificate D-PL-19221-01-02 according to DIN EN ISO/IEC 17025:2018

Valid from: 12.08.2024

Date of issue: 26.11.2024

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**  
**Mausegatt 18, 47228 Duisburg**

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.

*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>.*

Tests in the fields:

**Mechanical-technological tests, metallographic tests, corrosion tests and X-ray fluorescence analyses of metallic materials; optical emission spectrometry of low alloy steels, chromium, chromium-nickel, tool and duplex steels**

**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.**

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

GRO=Großmehring

DU II = Duisburg – Mausegatt 18 (MP-zP)

**1 Mechanical-technological tests \***

**1.1 Tensile test**

DIN EN ISO 4136 2022-09	Destructive tests on welds in metallic materials – Transverse tensile test	DU II
DIN EN ISO 6892-1 2020-06	Metallic materials – Tensile testing – Part 1: Method of test at room temperature	DU II
DIN EN ISO 6892-2 2018-09	Metallic materials – Tensile testing – Part 2: Method of test at elevated temperature	DU II
ASTM A 370 2022	Standard Test Methods and Definitions for Mechanical Testing of Steel Products	DU II
ASTM E 21 2020	Standard Test Methods for Elevated Temperature Tension Tests of Metallic Materials	DU II
ASTM E 8/E8Ma 2022	Standard Test Methods for Tension Testing of Metallic Materials	DU II

Valid from: 12.08.2024

Date of issue: 26.11.2024

**Annex to the Partial Accreditation Certificate D-PL-19221-01-02**

**1.2 Bend test**

DIN EN ISO 5173 2023-05	Destructive tests on welds in metallic materials – Bend tests	DU II
DIN EN ISO 7438 2021-03	Metallic materials – Bend test	DU II
DIN EN ISO 8492 2014-03	Metallic materials – Tube – Flattening test	DU II
DIN EN ISO 8493 2004-10	Metallic materials – Tube – Drift-expanding test	DU II
DIN EN ISO 8495 2014-03	Metallic materials – Tube – Ring-expanding test	DU II
DIN EN ISO 8496 2014-03	Metallic materials – Tube – Ring tensile test	DU II
DIN EN 1320 1996-12	Destructive tests on welds in metallic materials – Fracture test	DU II
DIN EN ISO 9017 2018-04	Destructive tests on welds in metallic materials - Fracture test	DU II
ASTM E 190 2021	Standard Test Method for Guided Bend Test for Ductility of Welds	DU II
ASTM E 290 2022	Standard Test Methods for Bend Testing of Material for Ductility	DU II
ASTM A 370 2022	Standard Test Methods and Definitions for Mechanical Testing of Steel Products	DU II

Valid from: 12.08.2024

Date of issue: 26.11.2024

**Page 3 of 7**

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

**Annex to the Partial Accreditation Certificate D-PL-19221-01-02**
**1.3 Impact tests**

DIN EN ISO 9016 2022-07	Destructive tests on welds in metallic materials – Impact tests – Test specimen location, notch orientation and examination	DU II
DIN EN ISO 148-1 2017-05	Metallic materials – Charpy pendulum impact test – Part 1: Test method	DU II
ASTM A 370 2023	Standard Test Methods and Definitions for Mechanical Testing of Steel Products	DU II

**1.4 Hardness tests \***
**1.4.1 Basic test methods**

DIN EN ISO 6508-1 2016-12	Metallic materials – Rockwell hardness test – Part 1: Test method	DU II, GRO
DIN EN ISO 6506-1 2015-02	Metallic materials – Brinell hardness test – Part 1: Test method	DU II, GRO
DIN EN ISO 6507-1 2018-07	Metallic materials – Vickers hardness test – Part 1: Test method	DU II, GRO
DIN EN ISO 9015-1 2011-05	Destructive tests on welds in metallic materials – Hardness testing – Part 1: Hardness test on arc welded joints	DU II
ASTM E 10 2023	Standard Test Method for Brinell Hardness of Metallic Materials	DU II
ASTM E 18 2022	Standard Test Methods for Rockwell Hardness of Metallic Materials	DU II
ASTM E 384 2022	Standard Test Methods for Microindentation Hardness of Materials	DU II
ASTM E 92 2023	Standard Test Methods for Vickers Hardness and Knoop Hardness of Metallic Materials	DU II
ASTM A 370 2022	Standard Test Methods and Definitions for Mechanical Testing of Steel Products	DU II

Valid from: 12.08.2024

Date of issue: 26.11.2024

Page 4 of 7

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

**Annex to the Partial Accreditation Certificate D-PL-19221-01-02**

**1.4.2 Mobile hardness tests**

DIN EN ISO 16859-1 2016-02	Metallic materials – Leeb hardness test – Part 1: Test method	GRO
DIN 50157-1 2020-11	Metallic materials – Hardness testing with portable measuring devices operating with mechanical penetration depth – Part 1: Test method	GRO
DIN 50159-1 2022-06	Metallic materials – Hardness testing with the UCI method – Part 1: Test method	GRO
ASTM A 956/A 956M 2022	Standard Test Method for Leeb Hardness Testing of Steel Products	GRO
ASTM A1038-19 2019	Standard Test Method for Portable Hardness Testing by the Ultrasonic Contact Impedance Method	GRO
DIN EN ISO 6507-1 2018-07	Metallic materials – Vickers hardness test – Part 1: Test method	GRO

**2 Metallographic testing \***

**2.1 Comparative methods**

ISO 4967 2013-07	Steel – Determination of content of non-metallic inclusions – Micrographic method using standard diagrams	DU II
DIN EN ISO 945-1 2019-10	Microstructure of cast irons – Part 1: Graphite classification by visual analysis	DU II
DIN EN ISO 17639 2022-05	Destructive tests on welds in metallic materials – Macroscopic and microscopic examination of welds	DU II
DIN EN 1321 1996-12	Metallographic examination – microscopic examination of special steels using standard diagrams to assess the content of non-metallic inclusions	DU II
DIN 50602 1985-09	Metallographic examination – microscopic examination of special steels using standard diagrams to assess the content of non-metallic inclusions	DU II
DIN 54150 1977-08	Non-destructive testing – impression methods for surface examination (Replica-technique)	DU II, GRO

Valid from: 12.08.2024

Date of issue: 26.11.2024

**Annex to the Partial Accreditation Certificate D-PL-19221-01-02**

ASTM E 45 2018	Standard Test Methods for Determining the Inclusion Content of Steel	DU II
-------------------	--	-------

Flexibility does not apply to the following test procedure:

VGB-S-517 2014	Guidelines for rating the microstructural composition and creep rupture damage of creep-resistant steel for high pressure pipelines and boiler components and their weld connections	DU II, GRO
-------------------	--	---------------

VGB-TW-507 1992	Guidelines for the assessment of microstructure and damage development of creep exposed materials for pipes and boiler components	DU II, GRO
--------------------	---	---------------

**2.2 Measuring methods**

DIN EN ISO 643 2020-06	Steels – Micrographic determination of the apparent grain size	DU II
---------------------------	--	-------

ASTM E 112 2013	Standard Test Methods for Determining Average Grain Size	DU II
--------------------	--	-------

ASTM E 562 2019	Standard Test Method for Determining Volume Fraction by Systematic Manual Point Count	DU II
--------------------	---	-------

**3 Corrosion tests \***

DIN EN ISO 3651-1 1998-08	Determination of resistance to intergranular corrosion of stainless steels – Part 1: Austenitic and ferritic-austenitic (duplex) stainless steels – Corrosion test in nitric acid medium by measurement of loss in mass (Huey test)	DU II
------------------------------	---	-------

DIN EN ISO 3651-2 1998-08	Determination of resistance to intergranular corrosion of stainless steels – Part 2: Ferritic, austenitic and ferritic-austenitic (duplex) stainless steels – Corrosion test in media containing sulfuric acid	DU II
------------------------------	--	-------

ASTM A 262 2015	Standard Practices for Detecting Susceptibility to Intergranular Attack in Austenitic Stainless Steels	DU II
--------------------	--	-------

ASTM A 923 2023	Standard Test Methods for Detecting Detrimental Intermetallic Phase in Duplex Austenitic/Ferritic Stainless Steels	DU II
--------------------	--	-------

ASTM G 28 2022	Standard Test Methods for Detecting Susceptibility to Intergranular Corrosion in Wrought, Nickel-Rich, Chromium-Bearing Alloys	DU II
-------------------	--	-------

Valid from: 12.08.2024

Date of issue: 26.11.2024



**Annex to the Partial Accreditation Certificate D-PL-19221-01-02**

ASTM G 48-11 2011	Standard Test Methods for Pitting and Crevice Corrosion Resistance of Stainless Steels and Related Alloys by Use of Ferric Chloride Solution	DU II
SEP 1877 1994-07	Test of the resistance of high-alloy, corrosion-proof materials against intercrystalline corrosion	DU II

**4 Spectroscopic tests**

0311-09-PA 2022-05	Positive material identification (PMI) using mobile X-Ray emission analysis (Positive Material Identification PMI)	GRO
0551-10-AA 2024-01	Optical Emission Spectrometry (OES): In house procedure for stationary spectrometers	DU II
0650-10-AA 2024-01	Performing optical emission spectrometry (OES) with Hitachi PMI Master Pro	GRO
0316-10-AA 2024-01	Chemical element analysis using energy dispersive x-ray spectroscopy (EDX)	GRO

**Abbreviations used:**

AA	Work instruction
ASTM	American Society for Testing Materials
DIN	German institute for standardization
EN	European Standard
IEC	International Electrotechnical Commission
ISO	International Organization for Standardization
PA	Test instructions
SEP	Steel and iron test sheet of the Association of German Steel Institute
VGB	VGB PowerTech e.V.

Valid from: 12.08.2024

Date of issue: 26.11.2024