

# Deutsche Akkreditierungsstelle

# Annex to the Accreditation Certificate D-PL-19083-01-00 according to DIN EN ISO/IEC 17025:2018

**Valid from: 14.02.2024**Date of issue: 14.02.2024

Holder of accreditation certificate:

Uhlig Z(f)P GmbH Innerstetal 16, 38658 Langelsheim

with the location

Uhlig Z(f)P GmbH Innerstetal 16, 38658 Langelsheim

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:

mechanic-technological testing of metallic materials (tensile test, hardness test, bend test, impact test);

structural examination and corrosion testing of metallic materials

The testing laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, to use standards or equivalent testing methods listed here with different issue dates. The testing laboratory maintains a current list of all testing methods within the flexible scope of accreditation.

### 1 Tensile test

DIN EN ISO 6892-1 2020-06	Metallic materials - Tensile testing - Part 1: Method of test at room temperature
DIN EN 6892-2 2018-09	Metallic materials - Tensile testing - Part 2: Method of test at elevated temperature
ASTM E 21 2020	Standard Test Methods for Elevated Temperature Tension Tests of Metallic Materials
DIN EN ISO 4136 2022-09	Destructive tests on welds in metallic materials - Transverse tensile test
ASME Section IX QW-150 2021	Tension test
ASTM E 8/E 8M 2022	Standard Test Methods for Tension Testing of Metallic Materials
DIN EN ISO 5178 2019-05	Destructive tests on welds in metallic materials - Longitudinal tensile test on weld metal in fusion welded joints

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2 Hardness test

DIN EN ISO 6507-1

2018-07

Metallic materials - Vickers hardness test - Part 1: Test method

ASTM E 92

2017

Standard Test Method for Vickers and Knoop Hardness of Metallic

Materials

**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

3 Bend test

**DIN EN ISO 7438** 

2021-03

Metallic materials - Bend test

**DIN EN ISO 5173** 

2023-05

Destructive tests on welds in metallic materials - Bend tests

ASME Section IX QW-160

2021

Guided-bend test

**DIN EN ISO 9017** 

2018-04

Destructive tests on welds in metallic materials - Fracture test

**DIN EN ISO 8492** 

2014-03

Metallic materials - Tube - Flattening test

**ASTM E 190** 

2021

Standard Test Method for Guided Bend Test for Ductility of Welds

4 Impact test

**DIN EN ISO 148-1** 

Metallic materials - Charpy pendulum impact test - Part 1: Test

2017-05

method

ASTM E 23

2019

Test Methods for Notched Bar Impact Testing of Metallic Materials

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



#### 5 Structural examination

DIN EN ISO 17639 Destructive tests on welds in metallic materials - Macroscopic and

2022-05 microscopic examination of welds

DIN EN ISO 643 Stahl - Mikrophotographische Bestimmung der scheinbaren Korn-

2020-06 größe

ASTM E 112 Standard Test Methods for Determining Average Grain Size

2013

ISO 9042 Steels - Manual point counting method for statistically estimating the

1988-12 volume fraction of a constituent with a point grid

ASTM E 562 Standard Test Method for Determining Volume Fraction by Systematic

2019 Manual Point Count

DIN EN ISO 1463 Metallic and oxide coatings - Measurement of coating thickness -

2021-08 Microscopical method

6 Corrosion testing

DIN EN ISO 3651-1 Determination of resistance to intergranular corrosion of stainless

1998-08 steels - Part 1: Austenitic and ferritic-austenitic (duplex) stainless

steels - Corrosion test in nitric acid medium by measurement of loss in

mass (Huey test)

DIN EN ISO 3651-2 Determination of resistance to intergranular corrosion of stainless

1998-08 steels - Part 2: Ferritic, austenitic and ferritic-austenitic (duplex)

stainless steels - Corrosion test in media containing sulfuric acid

SEP 1870 Determining the resistance of stainless steels to intergranular

1979-06 corrosion - Huey test

SEP 1877 Test of the resistance of high-alloy, corrosion-proof materials against

1994-07 intercrystalline corrosion

ASTM A 262 Standard Practices for Detecting Susceptibility to Intergranular Attack

2015 in Austenitic Stainless Steels

ASTM G 28 Standard Test Methods for Detecting Susceptibility to Intergranular

2015 Corrosion in Wrought, Nickel-Rich, Chromium-Bearing Alloys

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#### Abbreviations used:

ASME American Society of Mechanical Engineers
ASTM American Society for Testing and Materials
DIN German Institute for Standardization

EN European Standard

IEC International Electrotechnical Commission
ISO International Organization for Standardization

SEP Steel and iron test sheet of the Association of German Steel Institute

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