

Deutsche Akkreditierungsstelle

Annex to the Partial Accreditation Certificate D-PL-19262-01-02 according to DIN EN ISO/IEC 17025:2018

Valid from: 01.03.2024

Date of issue: 22.04.2024

This annex is a part of the accreditation certificate D-PL-19262-01-00.

Holder of partial accreditation certificate:

ZEROS GmbH Alexander-Meißner-Straße 34, 12526 Berlin

with the location

ZEROS GmbH

Alexander-Meißner-Straße 34, 12526 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.

Hardness test on steel and iron materials, optical spark emission spectrometry (OES) on steel, iron and aluminium materials, mechanical-technological and metallographic tests on metallic materials in metal producing and metal processing industry as well as in plant engineering and at plant

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



Annex to the Partial Accreditation Certificate D-PL-19262-01-02

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 lised here with different issue dates.

The testing laboratory maintains a current list of all testing procedures within the flexible scope of accreditation.

1 Mechanical-technological test ***

1.1 Hardness test

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 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

1.2 Mechanical test

DIN EN ISO 148-1 2017-05	Metallic materials - Charpy pendulum impact test - Part 1: Test method
DIN EN ISO 6892-1 2020-06	Metallic materials - Tensile testing - Part 1: Method of test at room temperature
DIN EN ISO 9016 2013-02	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

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2 Metallography

2.1 Metallography according standards ***

DIN EN ISO 643 Steels - Micrographic determination of the apparent grain size

2020-06

DIN EN ISO 945-1 Microstructure of cast irons - Part 1: Graphite classification by visual

2019-10 analysis

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

2022-05 microscopic examination of welds

2.2 Metallography according in house-methods

AA T-31 Rev. 0 Assessment of structures on metallic materials

2022-11

AA T-32 Rev. 0 Layer thickness measurement based on DIN EN ISO 1463

2022-11

3 Optical emission spectrometry (OES)

AA T-13 Optical emission spectrometry (OES) of 16 elements in steel and iron

Rev. 05 materials and 9 elements in aluminium materials

Abbreviations used:

AA Work instructions of the ZEROS GmbH
DIN German Institute for Standardization

EN European standard

IEC International Electrotechnical Commission
ISO International Organization for Standardization

Valid from: 01.03.2024

Date of issue: 22.04.2024 Page 3 of 3