

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-PL-21461-01-00 according to DIN EN ISO/IEC 17025:2018

Valid from: 14.12.2020

Date of issue: 14.12.2020

Holder of certificate:

**Jürgen Reindl ILB GmbH
Zum Grenzgraben 3, 76689 Ubstadt-Weiher**

Tests in the fields:

manual non-destructive testing (radiographic-, ultrasonic-, magnetic particle-, penetration- and visual testing) at metallic components within plant engineering and construction

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 management system requirements in DIN EN ISO/IEC 17025 are written in language relevant to operations of testing laboratories and operate generally in accordance with the principles of DIN EN ISO 9001.

*The certificate together with its annex reflects the status at the time of the date of issue. The current status of the scope of accreditation can be found in the database of accredited bodies of Deutsche Akkreditierungsstelle GmbH.
<https://www.dakks.de/en/content/accredited-bodies-dakks>*

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1 Radiographic testing

DIN EN ISO 17636 2013-05	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
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 10675-1 2017-04	Non-destructive testing of welds - Acceptance levels for radiographic testing - Part 1: Steel, nickel, titanium and their alloys
DIN EN ISO 10675-2 2018-02	Non-destructive testing of welds - Acceptance levels for radiographic testing - Part 2: Aluminium and its alloys

2 Ultrasonic testing

DIN EN 12680-1 2003-06	Founding - Ultrasonic examination - Part 1: Steel castings for general purposes
DIN EN 12680-3 2012-02	Founding - Ultrasonic testing - Part 3: Spheroidal graphite cast iron castings
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 ISO 16810 2014-07	Non-destructive testing - Ultrasonic testing - General principles
DIN EN ISO 16811 2014-06	Non-destructive testing - Ultrasonic testing - Sensitivity and range setting

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DIN EN ISO 16823 2014-07	Non-destructive testing - Ultrasonic testing - Transmission technique
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 17640 2019-02	Non-destructive testing of welds - Ultrasonic testing - Techniques, testing levels, and assessment
DIN EN 14127 2011-04	Non-destructive testing - Ultrasonic thickness measurement

3 Magnetic particle 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
DIN EN 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 9934-1 2017-036	Non-destructive testing - Magnetic particle testing - Part 1: General principles

4 Penetration testing

DIN EN ISO 3452-1 2014-09	Non-destructive testing - Penetrant testing - Part 1: General principles
DIN EN 10228-2 2016-10	Non-destructive testing of steel forgings - Part 2: Penetrant testing

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DIN EN ISO 10893-4
2011-07 Non-destructive testing of steel tubes - Part 4: Liquid penetrant inspection of seamless and welded steel tubes for the detection of surface imperfections

5 Visual testing

DIN EN ISO 17637
2017-04 Non-destructive testing of welds - Visual testing of fusion-welded joints

DIN EN 13018
2016-06 Non-destructive testing - Visual testing - General principles

DIN EN ISO 5817
2014-06 Welding - Fusion-welded joints in steel, nickel, titanium and their alloys (beam welding excluded) - Quality levels for imperfections

6 Cross standards

DVGW GW 350
2015-06 Welding Joints of Steel Pipelines for Gas and Water Supply - Manufacturing, Testing and Evaluation

AD 2000-Merkblatt HP 5/3
2015-04 Manufacture and testing of joints - Non-destructive testing of welded joints

AD 2000-Merkblatt HP 5/3
A 1
2015-04 Non-destructive testing of welded joints - Minimum requirements for non-destructive testing methods

ASME BPVC
Section 5
2019 ASME Boiler & Pressure Vessel Code - Section 5: Nondestructive Examination

Abbreviations used:

AD	Arbeitsgemeinschaft Druckbehälter
ASME	American Society of Mechanical Engineers
DIN	Deutsches Institut für Normung e.V.
DVGW	Deutscher Vereinigung des Gas- und Wasserfachs e.V.
EN	European Standard
IEC	International Electrotechnical Commission
ISO	International Organization for Standardization

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