

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-PL-17579-01-00 according to DIN EN ISO/IEC 17025:2018

Valid from: 17.06.2020

Date of issue: 04.08.2020

Holder of certificate:

**gammatest Gesellschaft für zerstörungsfreie Werkstoffprüfung mbH
Klöcknerstraße 93, 44579 Castrop-Rauxel**

Tests in the fields:

manual non-destructive testing (radiographic, ultrasonic, penetrant, visual and magnetic particle testing) at metallic components of plant engineering

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.

Radiographic testing ***

DIN EN 12681-1 2018-02	Founding - Radiographic testing - Part 1: Film techniques;
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 ISO 17636-1 2013-05	Non-destructive testing of welds - Radiographic testing - Part 1: X- and gamma-ray techniques with film

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

Abbreviations used: see last page

*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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DIN EN ISO 17636-2 2013-05	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

Ultrasonic testing ***

AD 2000-Data sheet HP 5/3 Annex 1 2015-04	Non-destructive testing of welded joints - Minimum requirements for non-destructive testing methods (here: <i>Chapter 3: Ultrasonic test</i>)
DGZfP US 1 1998-08	Thickness measurement with ultrasound
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 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 10893-8 2011-07	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 2011-07	Non-destructive testing of steel tubes - Part 8: Automated ultrasonic testing of seamless and welded steel tubes for the detection of laminar imperfections

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DIN EN ISO 16809 2020-02	Non-destructive testing - Ultrasonic thickness measurement
DIN EN ISO 16823 2014-07	Non-destructive testing - Ultrasonic testing - Transmission technique
DIN EN ISO 17405 2014-10	Non-destructive testing - Ultrasonic testing - Technique of testing claddings produced by welding, rolling and explosion
DIN EN ISO 17640 2019-02	Non-destructive testing of welds - Ultrasonic testing - Techniques, testing levels, and assessment
SEL 072 und Beiblatt 1977-12	Ultrasonically tested heavy plate - Technical delivery specifications <i>(withdrawn document)</i>
SEP 1915 1994-09	Ultrasonic test of steel pipes for aberration <i>(withdrawn document)</i>
SEP 1918 1992-01	Ultrasonic test of steel pipes for transverse defects <i>(withdrawn document)</i>
SEP 1919 1977-06	Ultrasonic testing for laminations of pipes of creep-resistant steels <i>(withdrawn document)</i>
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 <i>(withdrawn document)</i>
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	Ultrasonic testing of castings made of cast iron with spheroidal-graphite <i>(withdrawn document)</i>

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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 ISO 9934-1 2017-03	Non-destructive testing - Magnetic particle testing - Part 1: General principles (here: <i>Chapters 7-14</i>)
DIN EN ISO 17638 2017-03	Non-destructive testing of welds - Magnetic particle testing
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

Penetrant testing ***

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 testing - Part 2: Investment castings
DIN EN ISO 3452-1 2014-09	Non-destructive testing - Penetrant testing - Part 1: General principles (here: <i>Chapter 8</i>)

Visual testing ***

DIN EN 13018 2016-06	Non-destructive testing - Visual testing - General principles (here: <i>Chapter 5 and 6</i>)
DIN EN ISO 17637 2017-04	Non-destructive testing of welds - Visual testing of fusion-welded joints

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Cross-procedural standards for NDT (here for RT, UT, MT, PT, VT) - Standard procedure ***

DIN EN ISO 17635 2017-04	Non-destructive testing of welds - General rules for metallic materials (here: <i>Chapter 9 and Appendix A</i>)
DVGW GW 350 2015-06	Welding Joints of Steel Pipelines for Gas and Water Supply - Manufacturing, Testing and Evaluation (here: <i>Chapter 9</i>)
SEP 1914 1983-08	Non-destructive testing of fusion-welded seams in pipes of stainless steels
SEP 1916 1989-12	Non-destructive testing of fusion-welded ferritic steel pipes
SEP 1917 1994-09	Non-destructive testing of resistance welded pipes of ferritic steels

abbreviations used:

AD-HP	Working Group on Pressure Vessels; Manufacturing and Testing
DGZfP	German Society for Non-Destructive testing
DIN	German Institute for Standardization
DVGW	German gas and water industry association; Technical rules
EN	European Standard
ISO	International Organization for Standardization
MT	Magnetic particle testing
PT	Penetrant testing
RT	Radiographic testing
SEL	Steel-iron delivery terms from the Association of German Ironworkers
SEP	Steel-iron test sheets from the Association of German Ironworkers
UT	Ultrasonic testing
VT	Visual testing

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