DAkkS
Deutsche
Akkreditierungsstelle

# Deutsche Akkreditierungsstelle GmbH

**Entrusted according to Section 8 subsection 1 AkkStelleG in connection with Section 1 subsection 1 AkkStelleGBV**
Signatory to the Multilateral Agreements of EA, ILAC and IAF for Mutual Recognition

# Accreditation

The Deutsche Akkreditierungsstelle GmbH attests that the testing laboratory

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

is competent under the terms of DIN EN ISO/IEC 17025:2018 to carry out tests in the following fields:

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

The accreditation certificate shall only apply in connection with the notice of accreditation of 17.06.2020 with the accreditation number D-PL-17579-01. It comprises the cover sheet, the reverse side of the cover sheet and the following annex with a total of 5 pages.

Registration number of the certificate: **D-PL-17579-01-00**

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|---|---|---|---|
| Frankfurt am Main,<br>17.06.2020 | Dipl.-Ing. (FH) Ralf Egner<br>Head of Division | Translation issued:<br>04.08.2020 | Head of Division |

*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*

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

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 *****

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| DIN EN 12681-1<br>2018-02 | Founding - Radiographic testing - Part 1: Film techniques; |
| DIN EN ISO 5579<br>2014-04 | Non-destructive testing - Radiographic testing of metallic materials using film and X- or gamma rays - Basic rules |
| DIN EN ISO 17636-1<br>2013-05 | Non-destructive testing of welds - Radiographic testing - Part 1: X- and gamma-ray techniques with film |

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| DIN EN ISO 17636-2<br>2013-05 | Non-destructive testing of welds - Radiographic testing - Part 2: X- and gamma-ray techniques with digital detectors |
| DIN EN ISO 20769-1<br>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<br>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 *****

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| AD 2000-Data sheet HP 5/3<br>Annex 1<br>2015-04 | Non-destructive testing of welded joints - Minimum requirements for non-destructive testing methods<br>(here: *Chapter 3: Ultrasonic test*) |
| DGZfP US 1<br>1998-08 | Thickness measurement with ultrasound |
| DIN EN 10160<br>1999-09 | Ultrasonic testing of steel flat product of thickness equal to or greater than 6 mm (reflection method) |
| DIN EN 10228-3<br>2016-10 | Non-destructive testing of steel forgings - Part 3: Ultrasonic testing of ferritic or martensitic steel forgings |
| DIN EN 12680-1<br>2003-06 | Founding - Ultrasonic examination - Part 1: Steel castings for general purposes |
| DIN EN 12680-2<br>2003-06 | Founding - Ultrasonic examination - Part 2: Steel castings for highly stressed components |
| DIN EN 12680-3<br>2012-02 | Founding - Ultrasonic testing - Part 3: Spheroidal graphite cast iron castings |
| DIN EN ISO 10893-8<br>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<br>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<br>2020-02 | Non-destructive testing - Ultrasonic thickness measurement |
| DIN EN ISO 16823<br>2014-07 | Non-destructive testing - Ultrasonic testing - Transmission technique |
| DIN EN ISO 17405<br>2014-10 | Non-destructive testing - Ultrasonic testing - Technique of testing claddings produced by welding, rolling and explosion |
| DIN EN ISO 17640<br>2019-02 | Non-destructive testing of welds - Ultrasonic testing - Techniques, testing levels, and assessment |
| SEL 072 und Beiblatt<br>1977-12 | Ultrasonically tested heavy plate - Technical delivery specifications<br>*(withdrawn document)* |
| SEP 1915<br>1994-09 | Ultrasonic test of steel pipes for aberration<br>*(withdrawn document)* |
| SEP 1918<br>1992-01 | Ultrasonic test of steel pipes for transverse defects<br>*(withdrawn document)* |
| SEP 1919<br>1977-06 | Ultrasonic testing for laminations of pipes of creep-resistant steels<br>*(withdrawn document)* |
| SEP 1920<br>1984-12 | Ultrasonic testing of rolled semi-finished products on internal material discontinuities |
| SEP 1922<br>1985-07 | Ultrasonic testing of forgings of ferritic steel<br>*(withdrawn document)* |
| SEP 1923<br>2009-02 | Ultrasonic testing of steel forgings to stringent standards, in particular for components in turbine and generator systems |
| SEP 1924<br>1989-10 | Ultrasonic testing of castings made of cast iron with spheroical-graphite<br>*(withdrawn document)* |

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**Magnetic particle testing *****

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| DIN EN 1369<br>2013-01 | Founding - Magnetic particle testing |
| DIN EN 10228-1<br>2016-10 | Non-destructive testing of steel forgings - Part 1: Magnetic particle inspection |
| DIN EN ISO 9934-1<br>2017-03 | Non-destructive testing - Magnetic particle testing - Part 1: General principles<br>(here: *Chapters 7-14*) |
| DIN EN ISO 17638<br>2017-03 | Non-destructive testing of welds - Magnetic particle testing |
| DIN EN ISO 10893-5<br>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 *****

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| DIN EN 1371-1<br>2012-02 | Founding - Liquid penetrant testing - Part 1: Sand, gravity die and low pressure die castings |
| DIN EN 1371-2<br>2015-04 | Founding - Liquid penetrant testing - Part 2: Investment castings |
| DIN EN ISO 3452-1<br>2014-09 | Non-destructive testing - Penetrant testing - Part 1: General principles<br>(here: *Chapter 8*) |

**Visual testing *****

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| DIN EN 13018<br>2016-06 | Non-destructive testing - Visual testing - General principles<br>(here: *Chapter 5 and 6*) |
| DIN EN ISO 17637<br>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 *****

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| DIN EN ISO 17635<br>2017-04 | Non-destructive testing of welds - General rules for metallic materials<br>(here: *Chapter 9 and Appendix A*) |
| DVGW GW 350<br>2015-06 | Welding Joints of Steel Pipelines for Gas and Water Supply Manufacturing, Testing and Evaluation<br>(here: *Chapter 5*) |
| SEP 1914<br>1983-08 | Non-destructive testing of fusion-welded seams in pipes of stainless steels |
| SEP 1916<br>1989-12 | Non-destructive testing of fusion-welded ferritic steel pipes |
| SEP 1917<br>1994-09 | Non-destructive testing of resistance welded pipes of ferritic steels |

**abbreviations used:**

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|---|---|
| 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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