

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-PL-17377-01-00 according to DIN EN ISO/IEC 17025:2018

Valid from: 06.11.2019

Date of issue: 27.11.2019

Holder of certificate:

**Applus RTD Deutschland
Inspektionsgesellschaft mbH**

at the locations

**Industriestraße 34b, 44894 Bochum
Diepholzerstraße 14a, 27751 Delmenhorst
Am Ahornring 8, 18184 Roggentin
Prinz-Ludwig-Straße 17, 93055 Regensburg**

Tests in the fields:

manual non-destructive testing (radiographic-, ultrasonic-, penetrant-, magnetic particle-, visual-, eddy current- and leak testing) at metallic materials in the metal producing and metal processing industry as well as in the plant engineering and plant construction as well as mechanized ultrasonic tests in pipeline 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 testing laboratory maintains a current list of all testing methods within the flexible scope of accreditation.

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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1 Radiographic testing

DIN EN ISO 5579 2014-04	Non-destructive testing - Radiographic testing of metallic materials using film and X- or gamma rays - Basic rules (here: <i>chapter 6</i>)
DIN EN ISO 17636-1 2013-05	Non-destructive testing of welds - Radiographic testing - Part 1: X- and gamma-ray techniques with film
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 16407-1 2014-04	Non-destructive testing - Radiographic inspection of corrosion and deposits in pipes by X- and gamma rays - Part 1: Tangential radiographic inspection
DIN EN 12681-1 2018-02	Founding - Radiographic testing - Part 1: Film techniques

2 Ultrasonic testing

DIN EN ISO 16810 2014-07	Non-destructive testing - Ultrasonic testing - General principles (here: <i>chapter 9</i>)
DIN EN ISO 16828 2014-06	Non-destructive testing - Ultrasonic testing - Time-of-flight diffraction technique as a method for detection and sizing of discontinuities (here: <i>chapter 7, 8 and 12</i>)
DIN EN ISO 17640 2018-03	Non-destructive testing of welds - Ultrasonic testing - Techniques, testing levels, and assessment (here: <i>chapter 7-10 and annex A</i>)
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

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DIN EN 10246-6 2000-03	Non-destructive testing of steel tubes - Part 6: Automatic full peripheral ultrasonic testing of seamless steel tubes for the detection of transverse imperfections <i>(withdrawn standard)</i>
DIN EN 10246-7 2005-12	Non-destructive testing of steel tubes - Part 7: Automatic full peripheral ultrasonic testing of seamless and welded (except submerged arc welded) tubes for the detection of longitudinal imperfections <i>(withdrawn standard)</i>
DIN EN 10246-14 2000-03	Non-destructive testing of steel tubes - Part 14: Automatic ultrasonic testing of seamless and welded (except submerged arc-welded) steel tubes for the detection of laminar imperfections <i>(withdrawn standard)</i>
SEP 1920 1984-12	Ultrasonic testing of rolled semi-finished products on internal material discontinuities
DIN EN 12680-1 2003-06	Founding - Ultrasonic examination - Part 1: Steel castings for general purposes <i>(here: chapter 5)</i>
DIN EN 12680-2 2003-06	Founding - Ultrasonic examination - Part 2: Steel castings for highly stressed components <i>(here: chapter 5)</i>
DIN EN 12680-3 2012-02	Founding - Ultrasonic testing - Part 3: Spheroidal graphite cast iron castings
AD 2000-Merkblatt HP 5/3 Annex 1 2015-04	Non-destructive testing of welded joints - Minimum requirements for non-destructive testing methods <i>(here: ultrasonic testing)</i>
DVGW GW 350 2015-06	Welding Joints of Steel Pipelines for Gas and Water Supply - Manufacturing, Testing and Evaluation <i>(here: chapter 9.3.5)</i>
RTD-UT-1004 1995-01	RTD testing instruction for mechanized ultrasonic testing of manually arc-welded joints

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3 Magnetic particle testing

DIN EN ISO 17638
2017-03 Non-destructive testing of welds - Magnetic particle testing

DIN EN 1369
2013-01 Founding - Magnetic particle testing

4 Eddy current testing

DIN EN ISO 17643
2015-12 Non-destructive testing of welds - Eddy current examination of welds by complex plane analysis
(here: *chapter 6.5.3 and 6.7*)

5 Penetrant testing

DIN EN ISO 3452-1
2014-09 Non-destructive testing - Penetrant testing - Part 1: General principles
(here: *chapter 8*)

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

6 Leak testing

DIN EN 1593
1999-11 Non-destructive testing - Leak testing - Bubble emission techniques

7 Visual testing

DIN EN ISO 17637
2017-04 Non-destructive testing of welds - Visual testing of fusion-welded joints
(here: *chapter 5 and 6*)

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8 General standards

KTA 3201.3 2017-11	Components of the Reactor Coolant Pressure Boundary of Light Water Reactors - Part 3: Manufacture (here: <i>chapter 12; annex C, D and E</i>)
KTA 3201.4 2016-11	Components of the reactor coolant pressure boundary of light water reactors - Part 4: Inservice inspections and operational monitoring (here: <i>chapter 4 and 7</i>)
KTA 3211.3 2017-11	Pressure and Activity Retaining Components of Systems Outside the Primary Circuit - Part 3: Manufacture (here: <i>chapter 11; annex D and E</i>)
KTA 3211.4 2017-11	Pressure and Activity Retaining Components of Systems Outside the Primary Circuit - Part 4: Inservice Inspections and Operational Monitoring (here: <i>chapter 4 and 7</i>)
SEP 1917 1994-09	Nondestructive testing of resistance welded pipes of ferritic steels

Abbreviations used:

AD-HP	Working group of pressure vessels - Production and testing
DIN	German Institute for Standardization
DVGW	German association of gas- and water industry
EN	European Standard
ET	Eddy current testing
ISO	International Organization for Standardization
KTA	Nuclear Safety Standards Commission
LT	Leak testing
MT	Magnetic particle testing
PT	Penetrant testing
RT	Radiographic testing
RTD-UT	In house method of the Applus RTD Deutschland Inspektionsgesellschaft mbH
SEP	Steel and iron test sheet of the Association of German Steel Institute
UT	Ultrasonic testing
VT	Visual testing

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