

# Deutsche Akkreditierungsstelle GmbH

## Annex to the Accreditation Certificate D-PL-11246-01-00 according to DIN EN ISO/IEC 17025:2018

**Valid from: 09.09.2019**

Date of issue: 23.09.2019

Holder of certificate:

**MEYER WERFT GmbH & Co. KG**  
**Werkstoffprüflabor**  
**Industriegebiet Süd, 26871 Papenburg**

Tests in the fields:

**manual non-destructive tests (digital radiography, phased array ultrasonic tests, ultrasonic test, X-ray test, penetrant test, magnetic particle test, thermography) and mechanical structural tests (tensile test, impact test, bend tests, hardness test) as well as selected welding and metallographic analysis at metallic materials in metal production and metal-working industry, plant engineering, plant construction, pressure vessel construction and shipbuilding industry; thermographic analysis of ship equipment, electrotechnical facilities, pressure vessels and facilities of the naval technology**

**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>*

**Annex to the accreditation certificate D-PL-11246-01-00**

**1 Manual non-destructive tests**

**1.1 Ultrasonic tests**

DIN EN 10160 1999-09	Ultrasonic testing of steel flat product of thickness equal to or greater than 6 mm (reflection method)
DIN EN ISO 17640 2018-03	Non-destructive testing of welds - Ultrasonic testing - Techniques, testing levels, and assessment
DIN EN 12680-1 2003-06	Founding - Ultrasonic examination - Part 1: Steel castings for general purposes (here: <i>only chapter 5</i> )
DIN EN ISO 17405 2014-10	Non-destructive testing - Ultrasonic testing - Technique of testing claddings produced by welding, rolling and explosion
AD 2000-Merkblatt HP 5/3 Anlage 1 2015-04	Manufacture and testing of joints - Non-destructive testing of welded joints (here: <i>chapter 3</i> )

**1.2 Radiographic test**

DIN EN ISO 17636-2 2013-05	Non-destructive testing of welds - Radiographic testing - Part 2: X- and gamma-ray techniques with digital detectors
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**1.3 Thermography**

DIN 54191 2009-03	Non-destructive testing - Thermographic testing of electric installations (here: <i>chapter 6.2 and 6.5</i> )
DIN 54190-1 2004-08	Non-destructive testing - Thermographic testing - Part 1: General principles ( <i>withdrawn standard</i> )

**1.4 Magnetic particle tests**

DIN EN ISO 17638 2017-03	Non-destructive testing of welds - Magnetic particle testing
DIN EN 10228-1 2016-10	Non-destructive testing of steel forgings - Part 1: Magnetic particle inspection

**-Translation-**

**Annex to the accreditation certificate D-PL-11246-01-00**

**2 Mechanical structural tests**

**2.1 Tensile tests**

DIN EN ISO 6892-1 2017-02	Metallic materials - Tensile testing - Part 1: Method of test at room temperature (here: <i>method B</i> )
DIN EN ISO 9018 2016-02	Destructive tests on welds in metallic materials - Tensile test on cruciform and lapped joints
DIN EN ISO 4136 2013-02	Destructive tests on welds in metallic materials - Transverse tensile test
DIN EN ISO 5178 2011-05	Destructive tests on welds in metallic materials - Longitudinal tensile test on weld metal in fusion welded joints

**2.2 Impact test**

DIN EN ISO 148-1 2017-05	Metallic materials - Charpy pendulum impact test - Part 1: Test method
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**2.3 Bend tests**

DIN EN ISO 5173 2012-02	Destructive tests on welds in metallic materials - Bend tests
DIN EN ISO 7438 2016-07	Metallic materials - Bend test
SEP 1390 1996-07	Weld bead bend test

**2.4 Hardness tests**

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 6508-1 2016-12	Metallic materials - Rockwell hardness test - Part 1: Test method

**-Translation-**

**Annex to the accreditation certificate D-PL-11246-01-00**

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 50156-1 2007-07	Metallic materials - Leeb hardness test - Part 1: Test method
DIN 50159-1 2015-01	Metallic materials - Hardness testing with the UCI method - Part 1: Test method

**3 Metallographic structural tests**

DIN EN ISO 1463 2004-08	Metallic and oxide coatings - Measurement of coating thickness - Microscopical method
DVS 2922 2001-12	Testing of flash butt, press stump and MBP welded joints
DIN EN ISO 17639 2013-12	Destructive tests on welds in metallic materials - Macroscopic and microscopic examination of welds

**Abbreviations used:**

AD	working group for pressure vessels
DIN	German Institute for Standardisation
DVS	German Association for Welding and Related Processes r. a.
EN	European Standard
ISO	International Organization for Standardization
SEP	Steel-iron test sheets from the Association of German Ironworks

**-Translation-**