

Deutsche Akkreditierungsstelle

Annex to the Accreditation Certificate D-PL-20878-03-00 according to DIN EN ISO/IEC 17025:2018

Valid from: 04.10.2022

Date of issue: 04.10.2022

Holder of accreditation certificate:

**Deutsche Edelstahlwerke Specialty Steel GmbH & Co. KG
Auestraße 4, 58452 Witten**

with their testing laboratories

**Mechanisch-technologische Werkstoffprüfung und Metallographie
Auestraße 4, 58452 Witten
Oberschlesienstraße 16, 47807 Krefeld
Obere Kaiserstraße, 57078 Siegen**

The testing laboratory meets the minimal requirements of DIN EN ISO/IEC 17025:2018 and, if applicable, additional legal and normative requirements, including those in relevant sectoral schemes, in order to carry out the conformity assessment activities listed below.

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

Mechanical Testing, metallographic examinations and magnetic particle testing on steel and iron materials

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.**

This certificate annex is only valid together with the written accreditation certificate and reflects the status as indicated by the date of issue. The current status of any given scope of accreditation can be found in the directory of accredited bodies maintained by Deutsche Akkreditierungsstelle GmbH at <https://www.dakks.de>.

Annex to the Accreditation Certificate D-PL-20878-03-00

The testing laboratory maintains a current list of all testing procedures within the flexible scope of accreditation

The procedures are marked with the following symbols of the sites where they are carried out:

K = Krefeld S = Siegen W = Witten

Mechanical Testing ***

ASTM A370-20 2020	Standard Test Methods and Definitions for Mechanical Testing of Steel Products	K, W, S
ASTM E8/E8M-16ae1 2021	Standard Test Method for Tension Testing of Metallic Materials	K, W, S
ASTM E10-18 2018	Standard Test Method for Brinell Hardness of Metallic Materials (here: <i>Hardness test HB 10/3000</i>)	K, W, S
ASTM E10-18 2018	Standard Test Method for Brinell Hardness of Metallic Materials (here: <i>Hardness test HB 5/750</i>)	S
ASTM E10-18 2018	Standard Test Method for Brinell Hardness of Metallic Materials (here: <i>Hardness test HB 2,5/187,5</i>)	K, S
ASTM E18-20 2020	Standard Test Methods for Rockwell Hardness of Metallic Materials	K, W, S
ASTM E23-18 2018	Standard Test Methods for Notched Bar Impact Testing of Metallic Materials	K, W, S
DIN EN 2002-001 2006-11 and amendment 1 2007-08	Aerospace series - Metallic materials - Test methods - Part 1: Tensile testing at ambient temperature	W, S
DIN EN ISO 148-1 2017-05	Metallic materials - Charpy pendulum impact test - Part 1: Test method	K, W, S
DIN EN ISO 6506-1 2015-02	Metallic materials - Brinell hardness test - Part 1: Test method (here: <i>Hardness test HBW 10/3000</i>)	K, W, S
DIN EN ISO 6506-1 2015-02	Metallic materials - Brinell hardness test - Part 1: Test method (here: <i>Hardness test HBW 5/750</i>)	S

Valid from: 04.10.2022

Date of issue: 04.10.2022

Annex to the Accreditation Certificate D-PL-20878-03-00

DIN EN ISO 6506-1 2015-02	Metallic materials - Brinell hardness test - Part 1: Test method (here: <i>Hardness test HBW 2,5/187,5</i>)	K, S
DIN EN ISO 6508-1 2016-12	Metallic materials - Rockwell hardness test - Part 1: Test method	K, W, S
DIN EN ISO 6892-1 2020-06	Metallic materials - Tensile testing - Part 1: Method of test at room temperature	K, W, S

Metallographic examination according to standard methods ***

ASTM A604/A604M-07(2017) 2007 Reapproved 2017	Standard Practice for Macroetch Testing of Consumable Electrode Remelted Steel Bars and Billets	K
ASTM E45-18a 2018	Standard Test Methods for Determining the Inclusion Content of Steel	K, W, S
ASTM E112-13 2013	Standard Test Methods for Determining Average Grain Size	K, W, S
ASTM E381-20 2020	Standard Method of Macroetch Testing Steel Bars, Billets, Blooms, and Forgings	K
ASTM E562-19e1 2019	Standard Test Method for Determining Volume Fraction by Systematic Manual Point Count	K, W, S
DIN 50602 1985-09	Metallographic examination; microscopic examination of special steels using standard diagrams to assess the content of non- metallic inclusions (<i>zurückgezogene Norm</i>)	K, W, S
ISO 4967 2013-07	Steel - Determination of content of non-metallic inclusions - Micrographic method using standard diagrams	K, W, S

Metallographic examination according to in-house test methods

SAE AMS 2315H 2020-01	Determination of Delta Ferrite Content	K, W, S
--------------------------	--	---------

Magnetic particle testing ***

ASTM E1444/E1444M-16e1 2016	Standard Practice for Magnetic Particle Testing	W
--------------------------------	---	---

Valid from: 04.10.2022
Date of issue: 04.10.2022

Annex to the Accreditation Certificate D-PL-20878-03-00

Abbreviations used:

ASTM	American Society for Testing and Materials
DIN	German Institute for Standardization
EN	European Standard
ISO	International Organization for Standardization
SAE AMS	Society of Aerospace Engineers International