

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-PL-20301-01-00 according to DIN EN ISO/IEC 17025:2018

Valid from: 07.09.2020

Date of issue: 16.09.2020

Holder of certificate:

BGH Edelstahl Siegen GmbH

with the testing laboratories at the locations

**Industriestraße 12, 57076 Siegen
Stumme-Loch-Weg 1-5, 57072 Siegen**

Tests in the fields:

selected chemical and mechanical-technological analysis at iron and steel

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.

Location Industriestraße

Mechanical-technological analysis

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| DIN EN ISO 6892-1 2020-06 | Metallic materials - Tensile testing - Part 1: Method of test at room temperature (here: <i>only method B</i>) |
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| DIN EN ISO 6892-2 2011-05 | Metallic materials - Tensile testing - Part 2: Method of test at elevated temperature (here: <i>only method B</i>) |
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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 148-1 2017-05 | Metallic materials - Charpy pendulum impact test - Part 1: Test method |
| DIN EN ISO 6506-1 2015-02 | Metallic materials - Brinell hardness test - Part 1: Test method |
| DIN EN ISO 6508-1 2016-12 | Metallic materials - Rockwell hardness test - Part 1: Test method (here only: <i>for HRC</i>) |
| DIN EN ISO 6507-1 2018-07 | Metallic materials - Vickers hardness test - Part 1: Test method |
| ASTM A 370 2019 | Standard Test Methods and Definitions for Mechanical testing of steel Products (<i>here:</i> <i>Sections 6-14: Tension</i> <i>Section 17: Hardness - Brinell</i> <i>Section 18: Hardness - Rockwell</i> <i>Sections 20-30:- Impact (Charpy))</i> |

Location Stumme-Loch-Weg

Chemical analysis

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| DIN EN ISO 15350 2010-08 | Steel and iron - Determination of total carbon and sulfur content - Infrared absorption method after combustion in an induction furnace (Routine method) |
| DIN EN ISO 15351 2010-08 | Steel and iron - Determination of nitrogen content - Thermal conductimetric method after fusion in a current of inert gas (Routine method) |
| DIN EN 10276-2 2003-10 | Chemical analysis of ferrous materials - Determination of oxygen content in steel and iron - Part 2: Infrared method after fusion under inert gas |
| 2.64.7-AA Rev.1 2019 (<i>no flexibility at Cat. III</i>) | Determination of Al, As, B, Bi, C, Ca, Cd, Ce, Co, Cr, Cu, La, Mg, Mn, Mo, N, Nb, Ni, P, Pb, S, Sb, Se, Si, Sn, Ta, Te, Ti, V, W, Y, Zn and Zr in low alloy, chromium-, chromium/nickel, manganese, iron-nickel, and manganese steels by spark emission spectroscopy |
| Handbuch für das Eisen- hüttenlaboratorium Band 2, Teil 2 2. Ausgabe 1998 Seite 235-239 | Determination of hydrogen in steel by hot extraction - Carrier gas method, thermal conductivity |

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abbreviations used:

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| AA | Work instruction of the BGH Edelstahl Siegen GmbH |
| ASTM | American Society for Testing of Materials |
| BGH | Method of the BGH Edelstahl Siegen GmbH |
| DIN | German Institute for Standardization |
| EN | European Standard |
| ISO | International Organization for Standardization |

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