

Deutsche Akkreditierungsstelle

Annex to the Accreditation Certificate D-PL-11278-02-00 according to DIN EN ISO/IEC 17025:2018

Valid from: 04.04.2023

Date of issue: 07.06.2023

Holder of accreditation certificate:

**Salzgitter Mannesmann Forschung GmbH
Labor Metallografie und Metallkunde
Eisenhüttenstraße 99, 38239 Salzgitter**

The testing laboratory meets the requirements of DIN EN ISO/IEC 17025:2018 to carry out the conformity assessment activities listed in this annex. The testing laboratory meets additional legal and normative requirements, if applicable, including those in relevant sectoral schemes, provided that these are explicitly confirmed 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.

metallographic examination and hardness tests at steels and stainless steels

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.

1 Metallographic Examinations

ASTM E 45
2018

Standard Test Methods for Determining the Inclusion Content of Steel

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>.

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ASTM E 112 2013	Standard Test Methods for Determining Average Grain Size
DIN 50602 1985-09	Metallographic examination; microscopic examination of special steels using standard diagrams to assess the content of non-metallic inclusions <i>(withdrawn standard)</i>
DIN EN ISO 643 2020-06	Steels - Micrographic determination of the apparent grain size
DIN EN ISO 3887 2018-05	Steels - Determination of the depth of decarburization <i>(here only: metallographic Examinations)</i>
DIN EN 10247 2017-09	Micrographic examination of the non-metallic inclusion content of steels using standard pictures
DIN EN 10229 1998-11	Evaluation of resistance of steel products to hydrogen induced cracking (HIC) <i>(here only: chapter 8 and 9)</i>
NACE TM 0284 2016	Standard Test Method - Evaluation of Pipeline and Pressure Vessel steels for Resistance to Hydrogen-Induced Cracking <i>(here only: chapter 9)</i>
ISO 4967 2013-07	Steel - Determination of content of non-metallic inclusions - Micrographic method using standard diagrams
SEP 1571 Teil 1 2017-08	Evaluation of inclusions in special steels based on their surface areas - Part 1: Basics
SEP 1571 Teil 2 2017-08	Evaluation of inclusions in special steels based on their surface areas - Part 2: Methods K and M

2 Hardness test

DIN EN ISO 6507-1 2018-07	Metallic materials - Vickers hardness test - Part 1: Test method
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Abbreviations used:

ASTM	American Society for Testing and Materials
DIN	Deutsches Institut für Normung e.V. - German institute for standardization
EN	Europäische Norm - European Standard
IEC	International Electrotechnical Commission
ISO	International Organization for Standardization
NACE	International Corrosion Society
SEP	Steel-iron test sheets from the Association of German Ironworks