

Deutsche Akkreditierungsstelle GmbH

Entrusted according to Section 8 subsection 1 AkkStelleG in connection with Section 1 subsection 1 AkkStelleGBV

Signatory to the Multilateral Agreements of EA, ILAC and IAF for Mutual Recognition

Accreditation



The Deutsche Akkreditierungsstelle GmbH attests that the testing laboratory

**Salzgitter Flachstahl GmbH
Chemische Laboratorien, Immissionsschutz und Werkstoffprüfung
Eisenhüttenstraße 99, 38239 Salzgitter**

is competent under the terms of DIN EN ISO/IEC 17025:2018 to carry out tests in the following fields:

**physical, physico-chemical and chemical investigations of crude iron, steels, metals and alloys and of iron ores and basic pig iron sinter;
investigation of slags and oxidic raw materials, materials and waste materials;
selected investigations of water and process waters;
investigations of fuels and oils and of coke by-products;
determination of airborne substances at workplaces;
determination of selected inorganic and organic gaseous or particle-form airborne substances; airborne substances of emissions;
mechanical-technological investigations of metallic materials;
chemical and microbiological investigations in accordance with the drinking water regulations;
sampling of raw and drinking water**

The accreditation certificate shall only apply in connection with the notice of accreditation of 24.08.2022 with the accreditation number D-PL-18292-01. It comprises the cover sheet, the reverse side of the cover sheet and the following annex with a total of 14 pages.

Registration number of the certificate: **D-PL-18292-01-00**

Berlin,
24.08.2022

Dr. Heike Manke
Head of Division

Translation issued:
24.08.2022


Head of Division

*The certificate together with the annex reflects the status as indicated by the date of issue.
The current status of any given scope of accreditation may be found respectively in the database of accredited bodies of Deutsche Akkreditierungsstelle GmbH <https://www.dakks.de/en/content/accredited-bodies-dakks>.*

This document is a translation. The definitive version is the original German accreditation certificate.

See notes overleaf.

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-PL-18292-01-00 according to DIN EN ISO/IEC 17025:2018

Valid from: 24.08.2022

Date of issue: 24.08.2022

Holder of certificate:

**Salzgitter Flachstahl GmbH
Chemische Laboratorien, Immissionsschutz und Werkstoffprüfung
Eisenhüttenstraße 99, 38239 Salzgitter**

Tests in the fields:

**physical, physico-chemical and chemical investigations of crude iron, steels, metals and alloys and of iron ores and basic pig iron sinter;
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selected investigations of water and process waters;
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determination of selected inorganic and organic gaseous or particle-form airborne substances;
airborne substances of emissions;
mechanical-technological investigations of metallic materials;
chemical and microbiological investigations in accordance with the drinking water regulations;
sampling of raw and drinking water**

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.

The management system requirements of DIN EN ISO/IEC 17025 are written in the language relevant to the operations of testing laboratories. Laboratories that conform to the requirements of this standard, operate generally in accordance with the principles of DIN EN ISO 9001.

The certificate together with the annex 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/en/content/accredited-bodies-dakks>.

Abbreviations used: see last page

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1 Investigations of crude irons, steels, metals and alloys

1.1 RFA determinations of elements

DIN 51418-2
2015-03 X-ray spectrometry - X-ray emission and X-ray fluorescence analysis (XRF) - Part 2: Definitions and basic principles for measurements, calibration and evaluation of results
(Matrix: *crude iron, zinc, sheet metal coatings*)

1.2 ICP-OES determination of elements

DIN EN ISO 3815-2
2005-10 Zinc and zinc alloys - Part 2: Analysis by inductively coupled plasma optical emission spectrometry

DIN EN 10351
2011-05 Chemical analysis of ferrous materials - Inductively coupled plasma optical emission spectrometric analysis of unalloyed and low alloyed steels - Determination of Mn, P, Cu, Ni, Cr, Mo, V, Co, Al (total) and Sn
(also: *Determination of Si, Ti, As, Zn, Nb, Ca, B*)

DIN EN 14242
2004-12 Aluminium and aluminium alloys - Chemical analysis - Inductively coupled plasma optical emission spectral analysis

1.3 IR determination of elements and compounds

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)
(also: *Determination of surface carbon at 550°C*)

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

1.4 Spark-OES determination of elements

ASTM E 415-17
2017 Standard Test Method for Analysis of Carbon and Low-Alloy Steel by Spark Atomic Emission Spectrometry
(*extended element and working range*)

1.5 Other investigations

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)
AV TCCO O089 Rev. 4.0 2021-11	Determination of surface oil film (Matrix: <i>cold strip</i>)
Handbuch für das Eisenhüttenlaboratorium Vol. 2, Part 1, 1st Edition 2004, p. 63	Determination of silicon content, gravimetric determination, perchloric acid method
Handbuch für das Eisenhüttenlaboratorium Vol. 2, Part 2, 1998 Edition, p. 235	Determination of hydrogen in steel by hot extraction
Handbuch für das Eisenhüttenlaboratorium - Vol. 1, part 1 principles and methods (2016 Edition) p. 300-358	Radioactivity - Measurement and radiation protection
Handbuch für das Eisenhüttenlaboratorium Vol. 3, Part 1, 3rd Edition, 2011, p. 75	Determination of sulfide sulphur
NACE TM 0284 2016	Evaluation of Pipeline and Pressure Vessel Steels for Resistance to Hydrogen-Induced Cracking (Chapt. 1-3, 8)
NACE TM 0177 2016	Laboratory Testing of Metals for Resistance to Sulfide Stress Cracking and Stress Corrosion Cracking in H ₂ S Environments Method A, B
PSA D20 5333 1998-05	Zinc coatings on steel plating Gravimetric analysis of different elements and weights per unit area (ICP-OES)

2 Investigation of iron ores and basic pig iron sinter

Handbuch für das Eisenhüttenlaboratorium Vol. 3, 1st Edition (1997), p. 34	Determination of the iron content of ores and prereduced material (Cerimetry redox-titration)
ISO 9516-1 2003-04	Iron ores - Determination of various elements by X-ray fluorescence spectrometry - Part 1: Comprehensive procedure
DIN EN ISO 11885 (E 22) 2009-09	Water quality - Determination of selected elements by inductively coupled plasma optical emission spectrometry (ICP-OES) (Modification for sinter: <i>Element determination of sinter material in acid solution borate digestions</i>)
Handbuch für das Eisenhüttenlaboratorium Vol. 3, Part 1, 3rd Edition 2011, p.42	Determination of iron(II) oxide and iron(III) oxide

3 Investigation of slags and oxidic raw materials, materials and waste materials

DIN EN ISO 12677 2013-02	Chemical analysis of refractory products by X-ray fluorescence (XRF) - Fused cast-bead method (Matrix: <i>refractory material, slags, olivine, dunite</i>)
DIN EN ISO 11885 (E 22) 2009-09	Water quality - Determination of selected elements by inductively coupled plasma optical emission spectrometry (ICP-OES) (Modification for slags, lime and alloying agents: <i>Element determination of slags in acid solution borate digestions and of lime and alloying agents following acid digestion</i>)
DIN 38405-D 1 1985-12	German standard methods for the examination of water, waste water and sludge; anions (group D); determination of chloride ions (Modification for solid materials: <i>Aqueous extraction from the sample</i>)
DIN 51418-2 2015-03	X-ray spectrometry - X-ray emission and X-ray fluorescence analysis (XRF) - Part 2: Definitions and basic principles for measurements, calibration and evaluation of results (Matrix: <i>Blast furnace slag, converter slag</i>)

4 Selected investigations of water and process waters

DIN EN ISO 14403-2 (D 6) 2012-10	Water quality - Determination of total cyanide and free cyanide using flow analysis (FIA and CFA) - Part 2: Method using continuous flow analysis (CFA)
DIN 38407-F 43 2014-10	Determination of selected easily volatile organic compounds in water - Method using gas chromatography and mass spectrometry by static headspace technique (HS-GC-MS)
DIN 38407-F 39 2011-09	Determination of selected polycyclic aromatic hydrocarbons (PAH) - Method using gas chromatography with mass spectrometric detection (GC-MS)
DIN ISO 28540 (F 40) 2014-05	Water quality - Determination of 16 polycyclic aromatic hydrocarbons (PAH) in water - Method using gas chromatography with mass spectrometric detection (GC-MS)
DIN EN ISO 9562 (H 14) 2005-02	Water quality - Determination of adsorbable organically bound halogens (AOX)
DIN EN ISO 9377-2 (H 53) 2001-07	Water quality - Determination of hydrocarbon oil index - Part 2: Method using solvent extraction and gas chromatography

5 Investigations of fuels

DIN EN ISO 12677 2013-02	Chemical analysis of refractory products by X-ray fluorescence (XRF) - Fused cast-bead method
DIN 51460-1 2007-11	Testing of petroleum products - Method for sample preparation - Part 1: Microwave incineration
DIN 51718 2002-06	Testing of solid fuels - Determination of the water content and the moisture of analysis sample
DIN 51719 1997-07	Testing of solid fuels - Solid mineral fuels - Determination of ash content
DIN 51720 2001-03	Testing of solid fuels - Determination of volatile matter content
DIN 51724-3 2012-07	Solid mineral fuels - Determination of sulfur content - Part 3: Instrumental methods

DIN 51729-8 2001-05	Solid fuels - Determination of chemical composition of fuel ash - Part 8: Determination of soda and potash (Na ₂ O, K ₂ O) contents (Modification: <i>extension of the elements Zn, Pb, Ni, V Cu</i>)
DIN 51729-10 2011-04	Testing of solid fuels - Determination of chemical composition of fuel ash - Part 10: X-Ray Fluorescence Analysis
DIN 51732 2014-07	Testing of solid mineral fuels - Determination of total carbon, hydrogen and nitrogen - Instrumental methods
DIN ISO 10329 2021-03	Coal - Determination of plastic properties - Constant-torque Gieseler plastometer method
DIN 51739 1998-05	Testing of solid fuels - Determination of the dilatation of coal
DIN 51741 1998-10	Testing of solid fuels - Determination of the crucible swelling number of coal
DIN 51900-1 Corrigendum 1 2004-02	Testing of solid and liquid fuels - Determination of gross calorific value by the bomb calorimeter and calculation of net calorific value - Part 1: Principles, apparatus, methods
DIN 51900-2 2003-05	Testing of solid and liquid fuels - Determination of the gross calorific value by the bomb calorimeter and calculation of the net calorific value - Part 2: Method using isoperibol or static, jacket calorimeter
UN Test N.4 2009	Test ("Spontaneous heating - capable Materials" according to the UN Testing Manual (UN Recommendation on the Transport of Dangerous Goods, Manual of Tests and Criteria, Fifth Revision Edition 2009, Test Method for self-heating substances)
AV TCCO Rev. 3.0 2021-03	Determination of moisture, volatile matter and ash in solid fuels with macro-TGA

6 Investigations of oils

DIN ISO 2207 1983-12	Petroleum waxes; determination of congealing point
DIN EN ISO 2719 2021-06	Determination of flash point - Pensky-Martens closed cup method

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DIN EN ISO 6245 2003-01	Petroleum products - Determination of ash
DIN ISO 6618 2015-07	Petroleum products and lubricants - Determination of acid or base number - Colour-indicator titration method
DIN EN 12766-1 2000-11	Petroleum products and used oils - Determination of PCBs and related products - Part 1: Separation and determination of selected PCB congeners by gas chromatography (GC) using an electron capture detector (ECD) (Modification: <i>Detector GC-MSMS</i>)
DIN EN 12766-2 2001-12	Petroleum products and used oils - Determination of PCBs and related products - Part 2: Calculation of polychlorinated biphenyl (PCB) content
DIN 51451 2020-02	Testing of petroleum products and related products - Analysis by infrared spectrometry - General working principles
DIN 51559-1 2009-04	Testing of mineral oils - Determination of the saponification number - Part 1: Saponification numbers above 2, color indicator titration
DIN 51559-2 2009-04	Testing of mineral oils - Determination of saponification number - Part 2: Color-indicator titration, insulating oils
ASTM D 7042-21 2021	Standard Test Method for Dynamic Viscosity and Density of Liquids by Stabinger Viscosimeter
ASTM D 7843-21 2021	Standard Test Method for Measurement of Lubricant Generated Insoluble Color Bodies in In-Service Turbine Oils using Membrane Patch Colorimetry
SEB 181 322 2009-02	Tribotechnology - Testing of lubricants - Determination of solid substances in oils, greases and cooling lubricants by membrane filtration
AV TCCO O 104 rev. 9 2018-06	Determination of the oil content and the saponification number in lubrication emulsions by FTIR-spectroscopy

7 Investigations of coke by-products (tar, oil)

DIN EN ISO 12937 2002-03	Petroleum products - Determination of water - Coulometric Karl Fischer titration method
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8 Determination of airborne substances at workplaces

IFA 6068/1 2015	Alveolar fraction - Measurement method 1 (Matrix: <i>Dust samples</i>)
IFA 6068/2 2015	Alveolar fraction - Measurement method 2 (Matrix: <i>Dust samples</i>)
IFA 6172 2007	Inorganic acids, volatile: hydrogen bromide, hydrochloric acid, nitric acid
IFA 6173 2007	Inorganic acids, particulate: phosphoric acid, sulphuric acid
IFA 7050 1997	Diesel motor emissions - Determination of total carbon in the fine dust (in addition: <i>Determination of carbon by infrared absorption following combustion</i>)
IFA 7732 2011	Hydrocarbons, aliphatic (<i>sampling only</i>)
IFA 7733 2005	Hydrocarbons, aromatic (<i>sampling only</i>)
IFA 7735 2009	Mixtures of hydrocarbons - reciprocal calculation procedure (<i>sampling only</i>)
IFA 7750/7750-1 1997	Cooling lubricants and other complex containing hydrocarbons mixtures, non-water-soluble (<i>sampling only</i>)
IFA 8000 1997	Mineral oils, vapour and aerosol (aliphatic hydrocarbons with high boiling points)
IFA 8408 2018	Polycyclic aromatic hydrocarbons, hard volatile (<i>sampling only of benzo(a)pyrene</i>)
IFA 8522 2005	Quartz (<i>sampling individual carried only</i>)

9 Selected emission measurements

DIN EN 1948-1 2006-06	Stationary source emissions - Determination of the mass concentration of PCDDs/PCDFs and dioxin-like PCBs - Part 1: Sampling of PCDDs/PCDFs
DIN EN 12619 2013-04	Stationary source emissions - Determination of the mass concentration of total gaseous organic carbon - Continuous flame ionisation detector method
DIN EN 13284-1 2018-02	Stationary source emissions - Determination of low range mass concentration of dust - Part 1: Manual gravimetric method
DIN EN 14789 2017-05	Stationary source emissions - Determination of volume concentration of oxygen - Standard reference method: Paramagnetism
DIN EN 14792 2017-05	Stationary source emissions - Determination of mass concentration of nitrogen oxides - Standard reference method - chemiluminescence
DIN EN 15058 2017-05	Stationary source emissions - Determination of the mass concentration of carbon monoxide (CO) - Reference method: Non-dispersive infrared spectrometry
DIN 51872-4 1990-06	Testing of gaseous fuels and other gases; determination of the components; gaschromatographic procedure
AA TU 41 2018-11	Continuous measurement of SO ₂ based on the withdrawn standard VDI 2462, Sheet 4 (1975-08)
VDI 2066 Sheet 1 2006-11	Particulate matter measurement - Dust measurement in flowing gases - Gravimetric determination of dust load

10 Mechanical-technological investigations of metallic materials

10.1 Tensile testing

DIN ISO 10113 2021-06	Metallic materials - Sheet and strip - Determination of plastic strain ratio
DIN ISO 10275 2020-12	Metallic materials - Sheet and strip - Determination of tensile strain hardening exponent
DIN EN ISO 6892-1 2020-06	Metallic materials - Tensile testing - Part 1: Method of test at room temperature

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DIN EN ISO 6892-2
2011-05 Metallic materials - Tensile testing - Part 2: Method of test at elevated temperature

DIN EN 10325
2006-10 Steel - Determination of yield strength increase by the effect of heat treatment (Bake-Hardening-Index)

ASTM A370a
2020 Standard Test Methods and Definitions for Mechanical Testing of Steel Products

10.2 Notch impact bend testing

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

10.3 Drop weight testing

DIN EN 10274
1999-07 Metallic materials - Drop weight tear test

API RP 5L 3
2021-03 Recommended Practice for Conducting Drop-Weight Tear Tests on Line Pipe

10.4 Hardness measurement

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 (Scales B, C, 15N, 30N, 45N)

10.5 Roughness measurement

DIN EN 10049
2014-03 Measurement of roughness average Ra and peak count RPC on metallic flat products

10.6 Bend testing

DIN EN ISO 5173 2012-02	Destructive tests on welds in metallic materials - Bend tests
DIN EN ISO 7438 2021-03	Metallic materials - Bend test

11 Investigations in accordance with the drinking water regulations (TrinkwV)

Sampling

Method	Title
DIN ISO 5667-5 (A14) 2011-02	Water quality - Sampling - Part 5: Guidance on sampling of drinking water from treatment works and piped distribution systems
DIN EN ISO 5667-3 (A 21) 2019-07	Water quality - Sampling - Part 3: Preservation and handling of water samples
DIN EN ISO 19458 (K 19) 2006-12	Water quality - Sampling for microbiological analysis

ANNEX 1: MICROBIOLOGICAL PARAMETERS

PART I: General requirements for drinking water

No.	Parameter	Method
1	Escherichia coli (E. coli)	DIN EN ISO 9308-2 (K 6-1) 2014-06
2	Enterococci	Enterolert®-DW

PART II: Requirements for drinking water intended for dispensing from closed containers

not applicable

ANNEX 2: CHEMICAL PARAMETERS

PART I: Chemical parameters for which as a rule the concentration no longer rises in the supply network, including the drinking water installation

No.	Parameter	Method
1	Acrylamide	not measured
2	Benzene	DIN 38407-F 43 2014-10
3	Boron	DIN EN ISO 17294-2 (E29) 2017-1
4	Bromate	DIN EN ISO 10304-1 (D 20) 2009-07
5	Chromium	DIN EN ISO 17294-2 (E29) 2017-1
6	Cyanide	DIN EN ISO 14403-2 (D 3) 2012-10
7	1,2-dichloroethane	DIN 38407-F 43 2014-10
8	Fluoride	DIN EN ISO 10304-1 (D 20)2009-07
9	Nitrate	DIN EN ISO 10304-1 (D 20)2009-07

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No.	Parameter	Method
10	Active ingredients of pesticide and biocide products	not measured
11	Total active ingredients of pesticide and biocide products	not measured
12	Mercury	DIN EN ISO 17294-2 (E29) 2017-1
13	Selenium	DIN EN ISO 17294-2 (E29) 2017-1
14	Tetrachloroethene and trichloroethene	DIN 38407-F 43 2014-10
15	Uranium	DIN EN ISO 17294-2 (E29) 2017-1

PART II: Chemical parameters for which the concentration in the supply network, including the drinking water installation, can rise

No.	Parameter	Method
1	Antimony	DIN EN ISO 17294-2 (E29) 2017-1
2	Arsenic	DIN EN ISO 17294-2 (E29) 2017-1
3	Benzo-(a)-pyrenes	DIN ISO 28540 (F 40) 2014-05
4	Lead	DIN EN ISO 17294-2 (E29) 2017-1
5	Cadmium	DIN EN ISO 17294-2 (E29) 2017-1
6	Epichlorohydrin	not measured
7	Copper	DIN EN ISO 17294-2 (E29) 2017-1
8	Nickel	DIN EN ISO 17294-2 (E29) 2017-1
9	Nitrite	DIN EN 26777 (D 10) 1993-04
10	Polycyclic aromatic hydrocarbons	DIN ISO 28540 (F40) 2014-05
11	Trihalomethanes	DIN 38407-F 43 2014-10
12	Vinyl chloride	not measured

ANNEX 3: INDICATOR PARAMETERS

Part I: General indicator parameters

No.	Parameter	Method
1	Aluminium	DIN EN ISO 17294-2 (E29) 2017-1
2	Ammonium	DIN 38406-E 5 1983-10
3	Chloride	DIN EN ISO 10304-1 (D 20) 2009-07 DIN 38405-D 1 1985-12
4	Clostridium perfringens (including spores)	not measured
5	Coliform bacteria	DIN EN ISO 9308-2 (K 6-1) 2014-06
6	Iron	DIN EN ISO 17294-2 (E29) 2017-1
7	Colouring (spectral absorption coefficient for Hg 436 nm)	DIN EN ISO 7887 (C 1) 2012-04
8	Odour	DIN EN 1622 (B 3) 2006-10
9	Flavour	DIN EN 1622 (B 3) 2006-10
10	Colony count at 22 °C	TrinkwV§15 Paragraph (1c)

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No.	Parameter	Method
11	Colony count at 36 °C	TrinkwV§15 Paragraph (1c)
12	Electrical conductivity	DIN EN 27888 (C 8) 1993-11
13	Manganese	DIN EN ISO 17294-2 (E29) 2017-1
14	Sodium	DIN EN ISO 11885 (E 22) 2009-09
15	Organically bound carbon (TOC)	DIN EN 1484 (H3) 1997-08 2019-04
16	Oxidisability	DIN EN ISO 8467 (H 5) 1995-05
17	Sulfate	DIN EN ISO 10304-1 (D 20) 2009-07
18	Turbidity	DIN EN ISO-7027-1 (C21) 2016-11
19	Hydrogen ion concentration	DIN EN ISO 10523 2012-04
20	Calcite solubility	DIN 38404-C 10 2012-12

Part II: Special requirements for drinking water in drinking installation systems

not applicable

Parameters not included in Annexes 1 to 3 of the drinking water Regulations of 2001

Further periodic investigations

Parameter	Method
Calcium	DIN EN ISO 11885 (E 22) 2009-09
Potassium	DIN EN ISO 11885 (E 22) 2009-09
Magnesium	DIN EN ISO 11885 (E 22) 2009-09
Acid and Base capacity	DIN 38409-H 7 2005-12
Phosphate	DIN EN ISO 11885 (E 22) 2009-09

The accreditation does not replace the recognition or approval procedures of the responsible regulatory authorities in accordance with Article 15, Paragraph 4 of the drinking water regulations.

Abbreviations used:

AA TU...	Arbeitsanweisung Hausmethode der Salzgitter Flachstahl GmbH (In-house work instruction of the Salzgitter Flachstahl GmbH)
API RP...	American Petroleum Institute Recommended Practice
ASTM	American Society for Testing and Materials
AV TCCO...	Analysenvorschrift Hausmethode der Salzgitter Flachstahl GmbH (In-house analytical specification of the Salzgitter Flachstahl GmbH)
IFA	Berufsgenossenschaftliches Institut für Arbeitsschutz (German Occupational Insurance Institute)
DIN	Deutsches Institut für Normung (German Institute for Standardization)
EN	Europäische Norm (European standard)
IEC	International Electrotechnical Commission
ISO	International Organization for Standardization
NACE TM	Standard Method of NACE International - The Corrosion Society
PSA	Peugot Société Anonyme (Anonymous Peugeot Society)
SEB	Stahleisenbetriebsblatt (Basic Pig Iron Works Sheet)
TrinkwV	Trinkwasserverordnung (drinking water regulations)
VDI	Verein Deutscher Ingenieure (Association of German Engineers)