

# Deutsche Akkreditierungsstelle GmbH

## Annex to the Accreditation Certificate D-PL-14055-01-02 according to DIN EN ISO/IEC 17025:2005

**Indefinite since: 29.11.2018**

Date of issue: 02.01.2019

Holder of certificate:

**Horn & Co. Analytics GmbH**  
**Buderusstraße 25, 35576 Wetzlar**

Tests in the fields:

**selected methods for analysis of steels and slags**

**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 Selected methods for analysis of steels**

DIN EN ISO 15350 2010-08	Steel and iron - Determination of total carbon and sulphur 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)

**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-14055-01-02**

DIN EN 10276-1 2000-08	Chemical analysis of ferrous materials - Determination of oxygen content in steel and iron - Part 1: Sampling and preparation of steel samples for oxygen determination
DIN EN 10276-2 2003-10	Chemical analysis of ferrous materials - Determination of oxygen in steel and iron - Part 1: Sampling and preparation of steel samples for oxygen determination
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
ASTM E 415 2014	Standard test method for analysis of carbon and low-alloy steel by spark atomic emission spectrometry
ASTM E 1086 2014	Standard test method for analysis of austenitic stainless steel by spark atomic emission spectrometry
AA-HuK-047 2016-09	Determination of Al, As, B, Bi, C, Ca, Co, Cr, Cu, Fe, Mg, Mn, Mo, N, Nb, Ni, P, Pb, S, Sb, Si, Sn, Ta, Ti, V, W, Zn and Zr in low-alloy chromium, chromium/nickel, manganese and tool steels by spark emission spectroscopy
Handbuch für das Eisenhüttenlaboratorium, Volume 2, Part 2, 2nd Ed. 1998, p. 116 1985-01	Determination of total carbon and sulphur content of steel - Method using infrared atomic absorption spectroscopy
Handbuch für das Eisenhüttenlaboratorium, Volume 2, Part 2, 2nd Ed. 1998, p. 235 1989-08	Determination of hydrogen in steel by hot extraction - Carrier gas method, thermal conductivity
Handbuch für das Eisenhüttenlaboratorium, Volume 2, Part 2, 2nd Ed. 1998, p. 192 1986-11	Analysis of ferrochromium after sample preparation by metal remelting - X-ray fluorescence spectrometric determination of the elements silicon, manganese, phosphorus, chromium, nickel, vanadium and cobalt in ferrochromium

**-Translation-**

Abbreviations used: see last page

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## **2 Selected methods for analysis of slags**

DIN 51001 Supplementary sheet 1 2010-05	Testing of oxidic raw materials and basic materials - General bases of work for X-Ray fluorescence method (XRF) - General survey on disintegration methods referred to groups of materials for the determination of test specimens for XRF
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### **Abbreviations used:**

AA-HuK-xxx	In-house method of HuK Umweltlabor GmbH
ASTM	ASTM International, international standardisation organisation
DIN	Deutsches Institut für Normung e. V. (German Institute for Standardisation)
EN	European standard
HfdE	Handbuch für das Eisenhüttenlaboratorium (Handbook for the Iron and Steel Laboratory)
IEC	International Electrotechnical Commission
ISO	International Organisation for Standardisation

**-Translation-**

Abbreviations used: see last page

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