

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-PL-14179-01-00 according to DIN EN ISO/IEC 17025:2018

Valid from: 20.01.2021

Date of issue: 20.01.2021

Holder of certificate:

A.M.C.O. United Samplers and Assayers GmbH
Buschstraße 95, 47166 Duisburg

Tests in the fields:

**sampling, sample preparation and selected physical analyzes of ores,
foundry raw materials, metal products and ferro-alloys as well as coke and coal**

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 may be found respectively in the database of accredited bodies of Deutsche Akkreditierungsstelle GmbH <https://www.dakks.de/en/content/accredited-bodies-dakks>.*

Abbreviations used: see last page

Page 1 of 3

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

Annex to the accreditation certificate D-PL-14179-01-00

1 Sampling and sample preparation of ores, foundry raw materials, ferro alloys

ISO 4552-1 1987-12	Ferro alloys - sampling and preparation for chemical analysis-; Part 1: Ferrochromium, ferrosilicochromium, ferrosilicon, ferrosiliconmanganese, ferromanganese
ISO 4552-2 1987-12	Ferro alloys - sampling and preparation for chemical analysis-; Part 2: Ferrotitanium, ferromolybdenum, ferrotungsten, ferroniobium, ferrovanadium
DIN EN ISO 21068-1 2008-12	Chemical analysis of silicon-carbide-containing raw materials and refractory products - Part 1: General information and sample preparation
HfdE, volume 5, 56 following pages 2013	„Handbuch für das Eisenhüttenlaboratorium“ Sampling of Ferro alloys and additive metals, universal rules for sampling of heaps and diverse packing- and loading units as well as conveyor belts.

2 Physical determinations of ores, foundry raw materials and ferro alloys

DIN EN 15934 2012-11	Sludge, treated biowaste, soil and waste - Calculation of dry matter fraction after determination of dry residue or water content. (Matrix modification: <i>Products of zinc- and iron works industry</i>)
HfdE, volume 5, 74 following pages 2013	Analysis of particle size, screen test, procedure

3 Sampling, sample preparation and selected analyses of coke and coal

DIN 51701-1 2007-12	Testing of solid fuels - Sampling and sample preparation - Part 1: Definitions
DIN 51701-2 2006-09	Testing of solid fuels - Sampling and sample preparation - Part 2: Sampling
DIN 51701-3 2006-09	Testing of solid fuels - Sampling and sample preparation - Part 3: Sample preparation
DIN 51701-4 2006-09	Testing of solid fuels - Sampling and sample preparation - Part 4: Equipment

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DIN 51718
2002-06

Testing of solid fuels - Determination of the water content and the moisture of analysis sample

Abbreviations used:

DIN	Deutsches Institut für Normung
EN	Europäische Norm
HfdE	Handbuch für das Eisenhüttenlaboratorium (Manual for iron work laboratories)
IEC	International Electrotechnical Commission
ISO	International Organization for Standardization