

Deutsche Akkreditierungsstelle

Annex to the Partial Accreditation Certificate D-PL-20273-01-02 according to DIN EN ISO/IEC 17025:2018

Valid from: 04.04.2023

Date of issue: 09.01.2024

This annex is a part of the accreditation certificate D-PL-20273-01-00.

Holder of partial accreditation certificate:

SGL CARBON GmbH **Central Laboratory Services CLS** Werner-von-Siemens-Straße 18, 86405 Meitingen

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.

Test in the fields of:

Physical-mechanical and chemical material tests of solid fuels, carbon materials, carbon fibers, laminates, fiber composites, polymers and polymer fibers

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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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.

Within the given testing field marked with *, the testing laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, the free choice of standard or equivalent testing methods. The listed testing methods are exemplary.

The testing laboratory maintains a current list of all testing methods within the flexible scope of accreditation.

Testing of solid fuels, carbon materials, carbon fibers, laminates, fiber composites, polymers and polymer fibers

1 Mechanical sample preparation and digestion for physical-chemical analysis of elements in chemical products

DIN 51941-1Testing of carbonaceous materials - Determination of chemical2008-01composition - Part 1: Sample preparation, solid materials, solid binders and
impregnants

2 Physical-chemical and chemical tests

- 2.1 Determination of mass fractions in chemical products by gravimetry *
- DIN 51903Testing of carbonaceous materials Determination of ash value Solid2012-11materials
- DIN EN ISO 21068-2Chemical analysis of silicon-carbide-containing raw materials and
refractory products Part 2: Determination of loss on ignition, total
carbon, free carbon and silicon carbide, total and free silica and total
and free silicon

2.2 Determination of elements in chemical products by gas chromatography with thermal conductivity detector

DIN 51732Testing of solid mineral fuels - Determination of total carbon, hydrogen and
nitrogen - Instrumental methods
(additionally: Determination of total sulfur content)



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2.3 Determination of inorganic compounds in chemical products by infrared spectroscopy

DIN EN ISO 21068-2Chemical analysis of silicon-carbide-containing raw materials and refractory2008-12products - Part 2: Determination of loss on ignition, total carbon, free
carbon and silicon carbide, total and free silica and total and free silicon

2.4 Determination of inorganic compounds in chemical products by volumetry

DIN EN ISO 21068-2	Chemical analysis of silicon-carbide-containing raw materials and refractory
2008-12	products - Part 2: Determination of loss on ignition, total carbon, free
	carbon and silicon carbide, total and free silica and total and free silicon

2.5 Determination of elements in chemical products by ICP- OES *

DIN EN ISO 21068-2 2008-12	Chemical analysis of silicon-carbide-containing raw materials and refractory products - Part 2: Determination of loss on ignition, total carbon, free carbon and silicon carbide, total and free silica and total and free silicon
ISO 14435	Carbonaceous materials for the production of aluminium -
2005-07	Petroleum coke - Determination of trace metals by inductively coupled plasma atomic emission spectrometry
	(additionally: Determination of elements Ag, Bi, Cd, Co, Cr, Cu,
	K, Mo, P, Pb, Sn, Sr, W and Zr)

Abbreviations used:

- DINGerman institute for standardizationENEuropean StandardIECInternational Electrotechnical Commission
- ISO International Organization for Standardization