

Accreditation



The Deutsche Akkreditierungsstelle attests with this **Partial Accreditation Certificate** that the calibration laboratory

Isabellenhütte Heusler GmbH & Co. KG **Eibacher Weg 3-5, 35683 Dillenburg**

meets the requirements according to DIN EN ISO/IEC 17025:2018 for the conformity assessment activities listed in the annex to this certificate. This includes additional existing legal and normative requirements for the calibration laboratory, including those in relevant sectoral schemes, provided they are explicitly confirmed in the annex to this certificate.

The management system requirements of DIN EN ISO/IEC 17025 are written in the language relevant to the operations of calibration laboratories and they conform to the principles of DIN EN ISO 9001.

This accreditation was issued in accordance with Art. 5 Para. 1 Sentence 2 of Regulation (EC) 765/2008, after an accreditation procedure was carried out in compliance with the minimum requirements of DIN EN ISO/IEC 17011 and on the basis of a review and decision of the appointed accreditation committees.

This partial accreditation certificate only applies in connection with the notice of 17.02.2025 with accreditation number D-K-19500-01.
It consists of this cover sheet, the reverse side of the cover sheet and the following annex with a total of 3 pages.

Registration number of the partial accreditation certificate: **D-K-19500-01-02**
It is a part of the accreditation certificate: D-K-19500-01-00.

Berlin, 17.02.2025

Dipl.-Wirtsch.-Ing. (BA) Tim Harnisch
Head of Technical Unit

Translation issued:
17.02.2025

Dipl.-Wirtsch.-Ing. (BA) Tim Harnisch
Head of Technical Unit

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 (www.dakks.de).

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

See notes overleaf

Deutsche Akkreditierungsstelle GmbH

Office Berlin
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10117 Berlin

Office Frankfurt am Main
Europa-Allee 52
60327 Frankfurt am Main

Office Braunschweig
Bundesallee 100
38116 Braunschweig

The Deutsche Akkreditierungsstelle GmbH (DAkKS) is the entrusted national accreditation body of the Federal Republic of Germany according to § 8 section 1 AkkStelleG in conjunction with § 1 section 1 AkkStelleGBV. DAkKS is designated as the national accreditation authority by Germany according to Art. 4 Para. 4 of Regulation (EC) 765/2008 and clause 4.7 of DIN EN ISO/IEC 17000.

Pursuant to Art. 11 section 2 of Regulation (EC) 765/2008, the accreditation certificate shall be recognised as equivalent by the national authorities within the scope of this Regulation as well as by the WTO member states that have committed themselves in bilateral or multilateral mutual agreements to recognise the certificates of accreditation bodies that are members of ILAC or IAF as equivalent.

DAkKS is a signatory to the multilateral agreements for mutual recognition of the European co-operation for Accreditation (EA), International Accreditation Forum (IAF) and International Laboratory Accreditation Co-operation (ILAC).

The up-to-date state of membership can be retrieved from the following websites:

EA: www.european-accreditation.org

ILAC: www.ilac.org

IAF: www.iaf.nu

Deutsche Akkreditierungsstelle

Annex to the Partial Accreditation Certificate D-K-19500-01-02 according to DIN EN ISO/IEC 17025:2018

Valid from: 17.02.2025

Date of issue: 17.02.2025

This annex is a part of the accreditation certificate D-K-19500-01-00.

Holder of partial accreditation certificate:

Isabellenhütte Heusler GmbH & Co. KG
Eibacher Weg 3-5, 35683 Dillenburg

with the location

Isabellenhütte Heusler GmbH & Co. KG
Eibacher Weg 3-5, 35683 Dillenburg

The calibration laboratory meets the requirements of DIN EN ISO/IEC 17025:2018 to carry out the conformity assessment activities listed in this annex. The calibration 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 calibration laboratories and they conform to the principles of DIN EN ISO 9001.

Calibration in the fields:

Thermodynamic quantities

Temperature quantities

- **Direct reading thermometers**
- **Thermocouples**
- **Resistance thermometers**

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>.

Abbreviations used: see last page

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Annex to the Partial Accreditation Certificate D-K-19500-01-02

The calibration laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, to use calibration standards or equivalent calibration procedures listed here with different issue dates.

The calibration laboratory maintains a current list of all calibration standards / equivalent calibration procedures within the flexible scope of accreditation.

Permanent Laboratory

Calibration and Measurement Capabilities (CMC)

Measurement quantity / Calibration item	Range	Measurement conditions / procedure	Expanded uncertainty of measurement	Remarks
Temperature Resistance thermometers and Direct reading thermometers with resistance sensor	-40 °C to 50 °C	DKD-R 5-1:2023 in liquid bath	0.10 K	Comparison with standard platinum resistance thermometer
	> 50 °C to 250 °C		0.05 K	
	> 250 °C to 630 °C	DKD-R 5-1:2023 in fluidizing solid bath	0.25 K	
Direct reading thermometers with thermocouple sensor	-40 °C to 50 °C	DKD-R 5-3:2018 in liquid bath	0.5 K	
	> 50 °C to 250 °C		0.3 K	
	> 250 °C to 630 °C	DKD-R 5-3:2018 in fluidizing solid bath	0.5 K	
	> 630 °C to 1100 °C	DKD-R 5-3:2018 in tube furnaces	1.0 K	
	> 1100 °C to 1200 °C		1.5 K	
Noble metal thermocouples	0 °C to 250 °C	DKD-R 5-3:2018 in liquid bath	1.0 K	Comparison with standard thermocouple type S
	> 250 °C to 640 °C	DKD-R 5-3:2018 in fluidizing solid bath	1.0 K	
	> 640 °C to 1100 °C	DKD-R 5-3:2018 in tube furnaces	1.0 K	
	> 1100 °C to 1200 °C		1.5 K	
Base metal thermocouples Type K, Type N	-40 °C to 250 °C	DKD-R 5-3:2018 in liquid bath	1.8 K	Comparison with standard platinum resistance thermometer
	> 250 °C to 640 °C	DKD-R 5-3:2018 in fluidizing solid bath	3.0 K	Comparison with standard thermocouple type S
	> 640 °C to 1000 °C	DKD-R 5-3:2018 in tube furnaces	3.0 K	
	> 1000 °C to 1200 °C		4.0 K	

Valid from: 17.02.2025

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Permanent Laboratory

Calibration and Measurement Capabilities (CMC)

Measurement quantity / Calibration item	Range	Measurement conditions / procedure	Expanded uncertainty of measurement	Remarks
Base metal thermocouples Type J	0 °C to 250 °C	DKD-R 5-3:2018 in liquid bath	1.1 K	Comparison with standard platinum resistance thermometer
	> 250 °C to 500 °C	DKD-R 5-3:2018 in fluidizing solid bath	2.0 K	Comparison with standard thermocouple type S
	> 500 °C to 640 °C		3.0 K	
	> 640 °C to 760 °C	DKD-R 5-3:2018 in tube furnaces	3.0 K	
Type T	-40 °C to 250 °C	DKD-R 5-3:2018 in liquid bath	1.5 K	Comparison with standard platinum resistance thermometer
	> 250 °C to 400 °C	DKD-R 5-3:2018 in fluidizing solid bath	1.5 K	Comparison with standard thermocouple type S

Abbreviations used:

CMC	Calibration and measurement capabilities
DIN	Deutsches Institut für Normung e.V. – German institute for standardization
DKD-R	Calibration Guide of Deutscher Kalibrierdienst (DKD), published by the Physikalisch-Technischen Bundesanstalt
EN	Europäische Norm – European Standard
IEC	International Electrotechnical Commission
ISO	International Organization for Standardisation

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