

Deutsche Akkreditierungsstelle

Annex to the Accreditation Certificate D-K-21340-01-00 according to DIN EN ISO/IEC 17025:2018

Valid from: 08.07.2025

Date of issue: 08.07.2025

Holder of accreditation certificate:

**Dr. Brockhaus-Meßtechnik GmbH & Co. Kommanditgesellschaft
Gustav-Adolf-Straße 4, 58507 Lüdenscheid**

with the location

**Dr. Brockhaus-Meßtechnik GmbH & Co. Kommanditgesellschaft
Gustav-Adolf-Straße 4, 58507 Lüdenscheid**

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:

Electrical Quantities

Magnetic Quantities

- **Magnetic field strength**
- **Magnetic flux density**
- **Specific total loss Ps (AC)**
- **Specific apparent power Ss (AC)**

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

Page 1 of 3

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

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Permanent Laboratory

Calibration and Measurement Capabilities (CMC)

Measurement quantity / Calibration item	Range	Measurement conditions / procedure	Expanded uncertainty of measurement	Remarks
Magnetic field strength Epstein sample	1 A/m to 16500 A/m	DIN IEC 60404-2:2008-06 10 Hz – 400 Hz	$30 \cdot 10^{-5}$	Measured value \hat{H} : maximum magnetic field strength
Epstein sample of soft magnetic material	1 A/m to 16500 A/m	DIN IEC 60404-2:2008-06 10 Hz – 400 Hz	$30 \cdot 10^{-5}$	
Sheet sample (500 mm x 500 mm)	1 A/m to 20000 A/m	DIN IEC 60404-3:2010-04 10 Hz – 100 Hz	$35 \cdot 10^{-5}$	
Magnetic flux density Epstein sample made of non grain oriented electrical sheet	0.1 T to 1.8 T	DIN IEC 60404-2:2008-06 10 Hz – 400 Hz	$15 \cdot 10^{-5}$	Measured value \hat{J} : maximum magnetic polarization
Epstein sample made of grain oriented electrical sheet	0.1 T to 1.9 T	DIN IEC 60404-2:2008-06 10 Hz – 400 Hz	$14 \cdot 10^{-5}$	
Sheet sample (500 mm x 500 mm) made of non grain oriented electrical sheet	0.1 T to 1.6 T	DIN IEC 60404-3:2010-04 10 Hz – 100 Hz	$13 \cdot 10^{-5}$	
Sheet sample (500 mm x 500 mm) made of grain oriented electrical sheet	0.1 T to 1.9 T	DIN IEC 60404-3:2010-04 10 Hz - 100 Hz	$13 \cdot 10^{-5}$	
Epstein sample made of soft magnetic material	0.1 T to 2.3 T	DIN IEC 60404-2:2008-06 10 Hz – 400 Hz	$15 \cdot 10^{-5}$	
Specific total loss Ps (AC) Epstein sample made of grain oriented or non grain oriented electrical sheet	0 W/kg to 100 W/kg	DIN IEC 60404-2:2008-06 10 Hz – 400 Hz	$10 \cdot 10^{-5}$	
Sheet sample (500 mm x 500 mm) made of grain oriented or non grain oriented electrical sheet	0 W/kg to 100 W/kg	DIN IEC 60404-3:2010-04 10 Hz – 100 Hz	$35 \cdot 10^{-5}$	
Epstein sample made of soft magnetic material	0 W/kg to 100 W/kg	DIN IEC 60404-2:2008-06 10 Hz – 400 Hz	$25 \cdot 10^{-5}$	

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Page 2 of 3

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Permanent Laboratory

Calibration and Measurement Capabilities (CMC)

Measurement quantity / Calibration item	Range	Measurement conditions / procedure	Expanded uncertainty of measurement	Remarks
Specific apparent power S_s (AC) Epstein sample made of grain oriented or non grain oriented electrical sheet	0 VA/kg to 2600 VA/kg	DIN IEC 60404-2:2008-06 10 Hz – 400 Hz	15 · 10 ⁻⁵	Measured value S _s : specific apparent power
Sheet sample (500 mm x 500 mm) made of grain oriented or non grain oriented electrical sheet	0 VA/kg to 2600 VA/kg	DIN IEC 60404-3:2010-04 10 Hz – 100 Hz	30 · 10 ⁻⁵	
Epstein sample made of soft magnetic material	0 VA/kg to 2600 VA/kg	DIN IEC 60404-2:2008-06 10 Hz – 400 Hz	25 · 10 ⁻⁵	

Abbreviations used:

- CMC Calibration and measurement capabilities (Kalibrier- und Messmöglichkeiten)
- DIN Deutsches Institut für Normung e.V. – German institute for standardization
- EN Europäische Norm – European Standard
- IEC International Electrotechnical Commission
- ISO International Organization for Standardisation

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Page 3 of 3

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