

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-K-13119-01-00 according to DIN EN ISO/IEC 17025:2018

Valid from: 19.12.2019

Date of issue: 19.12.2019

Holder of certificate:

**IMA Materialforschung und Anwendungstechnik GmbH
Wilhelmine-Reichard-Ring 4, 01109 Dresden**

Calibration in the fields:

Mechanical quantities

Material testing machines (MTM)

- **Force (MTM) ^{a)}**
- **Extension (MTM) ^{a)}**

^{a)} only On-site Calibrations

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.

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>*

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On-site Calibration

Calibration and Measurement Capabilities (CMC)

Measurement quantity / Calibration item	Range	Measurement conditions / procedure	Expanded uncertainty of measurement ¹⁾	Remarks
Force (MTM) Force measuring devices of material testing machines according to DIN 51220	100 N to 500 kN	DIN EN ISO 7500-1:2018, DIN EN ISO 7500-1 sheet 1:1999	0.16 %	Force transducer Class 0.5 tensile / compression
Extension (MTM) Extension measuring devices of material testing machines according to DIN 51220	2 mm to 20 mm	DIN EN ISO 9513:2013	0.4 %; but not < 1.5 µm	Measuring principle: incremental
	> 20 mm to 200 mm		0.1 %; but not < 0.3 µm	
	> 200 mm to 1200 mm		0.2 %; but not < 0.7 µm	

Abbreviations used:

CMC Calibration and measurement capabilities (Kalibrier- und Messmöglichkeiten)

¹⁾ The expanded uncertainties according to EA-4/02 M:2013 are part of CMC and are the best measurement uncertainties within accreditation. They have a coverage probability of approximately 95 % and have a coverage factor of $k = 2$ unless stated otherwise. Uncertainties without unit are relative uncertainties referring to the measurement value unless stated otherwise.