

Accreditation



The Deutsche Akkreditierungsstelle attests with this **Accreditation Certificate** that

Bareiss Prüfgerätebau GmbH
Breiteweg 1, 89610 Oberdischingen

operates a calibration laboratory that fulfills the requirements according to DIN EN ISO/IEC 17025:2018 for those conformity assessment activities specified in detail in the annex listed below. This includes additional existing legal and normative requirements for the calibration laboratory including those in relevant sectoral schemes, provided that these are explicitly confirmed in the annex listed below.

D-K-15206-01-01 Valid from: 25.06.2026

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 accreditation certificate only applies in connection with the notice of 25.06.2026. It consists of this cover sheet, the reverse side of the cover sheet and the corresponding annex .

Registration number of the accreditation certificate: **D-K-15206-01-00**

Berlin, 25.06.2026 Dipl.-Wirtsch.-Ing. (BA) Tim Harnisch | Head of Technical Unit

Translation issued: 25.06.2026

This accreditation certificate was issued by the Deutsche Akkreditierungsstelle GmbH (DAkkS). It is digital sealed and valid without signature. It reflects the status as indicated by the date of issue. The current status of any valid and surveyed 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
Spittelmarkt 10
10117 Berlin

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 Accreditation Certificate D-K-15206-01-01 according to DIN EN ISO/IEC 17025:2018

Valid from: 25.06.2026

Date of issue: 06.07.2026

This annex is part of the Accreditation Certificate D-K-15206-01-00.

Holder of the Accreditation Certificate:

Bareiss Prüfgerätebau GmbH
Breiteweg 1, 89610 Oberdischingen

with the location

Bareiss Prüfgerätebau GmbH
Breiteweg 1, 89610 Oberdischingen

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.

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Annex to the Accreditation Certificate D-K-15206-01-01

Calibration in the fields:

Mechanical quantities

- **Hardness**
- **Weighing instruments ^{b)}**

Material testing machines (MTM)

- **Hardness (MTM) ^{a)}**
- **Extension (MTM) ^{a)}**
- **Mechanical work (MTM) ^{a)}**

^{a)} also on-site calibrations

^{b)} only on-site calibrations

Within the measurands/calibration items marked with *, 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.

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Annex to the Accreditation Certificate D-K-15206-01-01

Permanent Laboratory and On-site Calibration

Calibration and Measurement Capabilities (CMC)

Measurement quantity / Calibration item	Range	Measurement conditions / procedure	Expanded uncertainty of measurement	Remarks
Hardness (MTM)				
Measuring devices for the hardness scale Shore A*	0 Shore to 100 Shore	DIN ISO 48-4:2021 DIN EN ISO 868:2003 DIN ISO 48-9:2021 ASTM D 2240:2015	1.0 Shore	direct measurement with reference standards for distance and force
Analog Display				
Measuring distance	0 mm to 2.50 mm		2 µm	
Spring force	0 mN to 8050 mN		6 mN	
Digital Display				
Measuring distance	0 mm to 2.50 mm		2 µm	
Spring force	0 mN to 8050 mN		3 mN	
Indenter				
Shaft diameter	1.10 mm to 1.40 mm		1.2 µm	
Diameter of truncated cone	0.78 mm to 0.80 mm		1.5 µm	
Taper angle	34.75° to 35.25°		0.035°	
Pressure plate				
Outer diameter	17.50 mm to 18.50 mm		0.02 mm	
Bore diameter	2.90 mm to 3.10 mm		0.01 mm	
Load weight	1.000 kg to 1.100 kg		10 g	
Measuring devices for the hardness scale Shore D*	10 Shore to 100 Shore		1.0 Shore	
Analog Display				
Measuring distance	0 mm to 2.50 mm		2 µm	
Spring force	0 mN to 44500 mN		5 mN	
Digital Display				
Measuring distance	0 mm to 2.50 mm		2 µm	
Spring force	0 mN to 44500 mN		3 mN	
Indenter				
Shaft diameter	1.10 mm to 1.40 mm		1.2 µm	
Tip radius	0.09 mm to 0.11 mm		1.2 µm	
Taper angle	29.75° to 30.25°		0.035°	
Pressure plate				
Outer diameter	17.50 mm to 18.50 mm		0.02 mm	
Bore diameter	2.90 mm to 3.10 mm		0.01 mm	
Load weight	5.000 kg to 5.500 kg		20 g	
Measuring devices for the hardness scale Micro Shore A* (M Shore A)	0 Shore to 100 Shore	DIN ISO 48-9:2021 DIN ISO 48-2:2021 DIN ISO 48-4:2021 DIN ISO 48-3:2021	1.0 Shore	direct measurement with reference standards for distance and force in the combination of the DIN ISO 48-2 chapter 5.2 for the force and DIN ISO 48-4 chapter 6.1 for the indenter and DIN ISO 48-3 annex A for the measuring distance
Measuring distance	0.05 mm to 0.90 mm		2 µm	
Pre-load	7.8 mN to 8.8 mN		0.2 mN	
Test force	107 mN to 110 mN		0.2 mN	
Contact pressure	205 mN to 265 mN		2 mN	
Indenter				
Shaft diameter	1.10 mm to 1.40 mm		1.2 µm	
Tip radius	0.09 mm to 0.11 mm		1.2 µm	
Taper angle	29.75° to 30.25°		0.035°	
Pressure plate				
Outer diameter	5.50 mm to 6.50 mm		0.02 mm	
Bore diameter	2.90 mm to 3.10 mm		0.01 mm	

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Permanent Laboratory and On-site Calibration

Calibration and Measurement Capabilities (CMC)

Measurement quantity / Calibration item	Range	Measurement conditions / procedure	Expanded uncertainty of measurement	Remarks
Hardness (MTM)				
Measuring devices for the hardness scale Micro Shore D* (M Shore D)	30 Shore to 100 Shore	DIN ISO 48-9:2021 DIN ISO 48-4:2021 DIN ISO 48-3:2021	1.0 Shore	direct measurement with reference standards for distance and force in the combination of the DIN ISO 48-4 chapter 6.1 for the force and the indenter and DIN ISO 48-3 annex A for the measuring distance
Measuring distance	0 mm to 0.50 mm		2 µm	
Spring force	0 mN to 9120 mN		3.5 mN	
Indenter				
Shaft diameter	1.10 mm to 1.40 mm		1.2 µm	
Tip radius	0.09 mm to 0.11 mm		1.2 µm	
Taper angle	29.75° to 30.25°		0.035°	
Pressure plate				
Circle segment diameter	6.00 mm to 7.00 mm		0.02 mm	
Circle segment width	3.90 mm to 4.90 mm		0.01 mm	
Bore diameter	2.90 mm to 3.10 mm		0.01 mm	
Measuring devices for the hardness scale 0 – 2 N	0 N to 2.0 N	QMV7.2.14-1	0.02 N	direct measurement with reference standards for distance and force
Measuring distance	0 mm to 2.50 mm		2 µm	
Spring force	0 N to 2.03 N		4 mN	
Indenter				
Cylinder diameter	3.55 mm to 3.59 mm		2 µm	
Measuring devices for the hardness scale 0 – 20 N	0 N to 20.1 N	QMV7.2.14-1	0.2 N	
Measuring distance	0 mm to 2.50 mm		2 µm	
Spring force	0 N to 20.0 N		6 mN	
Indenter				
Cylinder diameter	9.98 mm to 10.02 mm		2 µm	
Measuring devices for the hardness scale IRHD N (normal)*	30 IRHD to 100 IRHD	DIN ISO 48-2:2021 DIN ISO 48-9:2021 ASTM D 1415:2018	1.0 IRHD	
Measuring distance	0 mm to 1.81 mm		2 µm	
Pre-load	0.28 N to 0.32 N		1 mN	
Main force	5.39 N to 5.41 N		2 mN	
Total force	5.67 N to 5.73 N		2 mN	
Contact pressure	6.80 N to 9.80 N		5 mN	
Indenter				
Ball diameter	2.49 mm to 2.51 mm		2 µm	
Pressure plate				
Outer diameter	19.00 mm to 21.00 mm		0.02 mm	
Bore diameter	5.00 mm to 7.00 mm		0.01 mm	
Measuring devices for the hardness scale IRHD L (low)*	9.9 IRHD to 34.9 IRHD	DIN ISO 48-2:2021 DIN ISO 48-9:2021 ASTM D 1415:2018	1.0 IRHD	
Measuring distance	1.09 mm to 3.19 mm		2 µm	
Pre-load	0.28 N to 0.32 N		1 mN	
Main force	5.39 N to 5.41 N		2 mN	
Total force	5.67 N to 5.73 N		2 mN	
Contact pressure	6.80 N to 9.80 N		5 mN	
Indenter				
Ball diameter	4.99 mm to 5.01 mm		2 µm	
Pressure plate				
Outer diameter	21.00 mm to 23.00 mm		0.02 mm	
Bore diameter	9.00 mm to 11.00 mm		0.01 mm	

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Permanent Laboratory and On-site Calibration

Calibration and Measurement Capabilities (CMC)

Measurement quantity / Calibration item	Range			Measurement conditions / procedure	Expanded uncertainty of measurement	Remarks
Hardness (MTM)				DIN ISO 48-2:2021 DIN ISO 48-9:2021 ASTM D 1415:2018	1.0 IRHD	direct measurement with reference standards for distance and force
Measuring devices for the hardness scale IRHD M (micro)*	30 IRHD	to	100 IRHD			
Measuring distance	0 mm	to	0.302 mm			
Pre-load	7.8 mN	to	8.8 mN			
Main force	144.5 mN	to	145.5 mN			
Total force	152.3 mN	to	154.3 mN			
Contact pressure	205 mN	to	265 mN			
Indenter						
Ball diameter	0.390 mm	to	0.400 mm			
Pressure plate						
Outer diameter	3.20 mm	to	3.50 mm			
Bore diameter	0.85 mm	to	1.15 mm			
Measuring devices for the hardness scale IRHD H (hard)*	30 IRHD	to	100 IRHD			
Measuring distance	0 mm	to	0.45 mm			
Pre-load	0.28 N	to	0.32 N			
Main force	5.39 N	to	5.41 N			
Total force	5.67 N	to	5.73 N			
Contact pressure	6.8 N	to	9.8 N			
Indenter						
Ball diameter	0.99 mm	to	1.01 mm			
Pressure plate						
Outer diameter	19.0 mm	to	21.0 mm			
Bore diameter	5.0 mm	to	7.0 mm			
Measuring device for the Hardness scale VLRH*	0 VLRH	to	100 VLRH	DIN ISO 48-3:2021 DIN ISO 48-9:2021	1.0 VLRH	
Measuring distance	0 mm	to	1.01 mm			
Pre-load	7.8 mN	to	8.8 mN			
Main force	91.2 mN	to	92.2 mN			
Total force	99.0 mN	to	101.0 mN			
Contact pressure	205 mN	to	265 mN			
Indenter						
Ball diameter	2.49 mm	to	2.51 mm			
Pressure plate						
Outer diameter	5.50 mm	to	6.50 mm			
Bore diameter	2.90 mm	to	3.10 mm			
Spring force-check device with sliding weights*	0 Shore	to	100 Shore	ASTM D 2240:2015	0.2 Shore	direct measurement with reference standards for force
Shore A test force	0 mN	to	8050 mN			
Shore D test force	0 mN	to	44500 mN			
Extension (MTM)				QMV7.2.7-4	0.2 Shore 2 µm	direct measurement with reference standards for distance
Measuring distance-control rings						
„20 Shore“	1.995 mm	to	2.005 mm			
„40 Shore“	1.495 mm	to	1.505 mm			
„60 Shore“	0.995 mm	to	1.005 mm			
„80 Shore“	0.495 mm	to	0.505 mm			

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Permanent Laboratory and On-site Calibration
Calibration and Measurement Capabilities (CMC)

Measurement quantity / Calibration item	Range	Measurement conditions / procedure	Expanded uncertainty of measurement	Remarks
Hardness (MTM)				
Measuring devices for the hardness scale Shore AM/M*	0 Shore to 100 Shore	DIN ISO 48-4:2021 ASTM D 2240:2015 DIN ISO 48-9:2021	1.0 Shore	direct measurement with reference standards for distance and force
Measuring distance	0 mm to 1.25 mm		2 µm	
Spring force	755.2 mN to 772.8 mN		2 mN	
Indenter				
Shaft diameter	0.765 mm to 0.815 mm		1.2 µm	
Tip radius	0.09 mm to 0.11 mm		1.2 µm	
Taper angle	29.75° to 30.25°		0.035°	
Pressure plate Shore AM				
Outer diameter	8.70 mm to 9.30 mm		0.05 mm	
Bore diameter	1.16 mm to 1.22 mm		0.01 mm	
Pressure plate Shore M				
Outer diameter	3.2 mm to 3.80 mm		0.02 mm	
Bore diameter	1.16 mm to 1.22 mm		0.01 mm	
Load weight	0.250 kg to 0.300 kg		5 g	
Measuring devices for the hardness scale Shore A0*	0 Shore to 100 Shore	DIN ISO 48-4:2021 DIN ISO 48-9:2021	1.0 Shore	direct measurement with reference standards for distance and force
Measuring distance	0 mm to 2.50 mm		2 µm	
Spring force	0 mN to 8050 mN		2 mN	
Indenter				
Ball diameter	4.96 mm to 5.04 mm		2 µm	
Pressure plate				
Pressure plate surface	≥ 500 mm ²		5 mm ²	
Bore diameter	5.20 mm to 5.60 mm		0.01 mm	
Load weight	1.000 kg to 1.100 kg		10 g	

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Annex to the Accreditation Certificate D-K-15206-01-01
Permanent Laboratory and On-site Calibration
Calibration and Measurement Capabilities (CMC)

Measurement quantity / Calibration item	Range	Measurement conditions / procedure	Expanded uncertainty of measurement	Remarks
Hardness (MTM)		ASTM D 2240:2015		
Measuring devices for the hardness scale Shore 0*	0 Shore to 100 Shore		1.0 Shore	
Analog display				
Measuring distance	0 mm to 2.50 mm		2 µm	
Spring force	0 mN to 8050 mN		5 mN	
Digital display				
Measuring distance	0 mm to 2.50 mm		2 µm	
Spring force	0 mN to 8050 mN		3 mN	
Indenter				
Ball diameter	2.30 mm to 2.46 mm		2 µm	
Pressure plate				
Pressure plate surface	≥ 500 mm ²		5 mm ²	
Bore diameter	3.50 mm to 3.70 mm		0.01 mm	
Load weight	1.000 kg to 1.100 kg		10 g	
Measuring devices for the hardness scale Shore 00*	0 Shore to 100 Shore		1.0 Shore	
Measuring distance	0 mm to 2.50 mm		2 µm	
Spring force	0 N to 1.111 N		2 mN	
Indenter				
Ball diameter	2.30 mm to 2.46 mm		2 µm	
Pressure plate				
Pressure plate surface	≥ 500 mm ²		5 mm ²	
Bore diameter	3.40 mm to 3.80 mm		0.01 mm	
Load weight	0.400 kg to 0.440 kg		6 g	

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Permanent Laboratory and On-site Calibration

Calibration and Measurement Capabilities (CMC)

Measurement quantity / Calibration item	Range	Measurement conditions / procedure	Expanded uncertainty of measurement	Remarks
Hardness (MTM)		ASTM D 2240:2015		
Measuring devices for the Hardness scale Shore 000*	0 Shore to 100 Shore		1.0 Shore	
Analog/digital display				
Measuring distance	0 mm to 2.50 mm		2 µm	
Spring force	0 N to 1.111 N		2 mN	
Indenter				
Ball radius	6.32 mm to 6.38 mm		2 µm	
Cylinder diameter	10.57 mm to 10.83 mm		2 µm	
Pressure plate				
Pressure plate surface	≥ 500 mm ²		5 mm ²	
Bore diameter	11.67 mm to 11.93 mm		0.01 mm	
Load weight	0.400 kg to 0.440 kg		6 g	
Measuring devices for the Hardness scale Shore 000-S*	0 Shore to 100 Shore		1.0 Shore	
Analog/digital display				
Measuring distance	0 mm to 5.0 mm		2 µm	
Spring force	0 N to 1.932 N		1 mN	
Indenter				
Ball radius	10.57 mm to 10.83 mm		2 µm	
Cylinder diameter	11.82 mm to 11.98 mm		2 µm	
Pressure plate				
Pressure plate surface	≥ 500 mm ²		5 mm ²	
Bore diameter	12.40 mm to 13.00 mm		0.01 mm	
Load weight	0.400 kg to 0.440 kg		6 g	
Measuring devices for the Hardness scale Shore B*	0 Shore to 100 Shore		1.0 Shore	
Analog display				
Measuring distance	0 mm to 2.50 mm		2 µm	
Spring force	0 mN to 8050 mN		5 mN	
Digital display				
Measuring distance	0 mm to 2.50 mm		2 µm	
Spring force	0 mN to 8050 mN		3 mN	
Indenter				
Shaft diameter	1.10 mm to 1.40 mm		1.2 µm	
Tip diameter	0.09 mm to 0.11 mm		1.2 µm	
Cone angle	29.75° to 30.25°		0.035°	
Pressure plate				
Outer diameter	17.50 mm to 18.50 mm		0.02 mm	
Bore diameter	2.90 mm to 3.10 mm		0.01 mm	
Load weight	1.000 kg to 1.100 kg		10 g	

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Permanent Laboratory and On-site Calibration
Calibration and Measurement Capabilities (CMC)

Measurement quantity / Calibration item	Range	Measurement conditions / procedure	Expanded uncertainty of measurement	Remarks
Hardness (MTM)		ASTM D 2240:2015		
Measuring devices for the Hardness scale Shore D0*	0 Shore to 100 Shore		1.0 Shore	
Measuring distance	0 mm to 2.50 mm		2 µm	
Spring force	0 mN to 44450 mN		3 mN	
Indenter				
Ball diameter	2.30 mm to 2.46 mm		2 µm	
Pressure plate				
Outer diameter	17.50 mm to 18.50 mm		0.02 mm	
Bore diameter	3.50 mm to 3.70 mm		0.01 mm	
Load weight	5.000 kg to 5.500 kg		20 g	
Measuring devices for the Hardness scale Shore C*	0 Shore to 100 Shore		1.0 Shore	
Analog display				
Measuring distance	0 mm to 2.50 mm		2 µm	
Spring force	0 mN to 44450 mN		5 mN	
Digital display				
Measuring distance	0 mm to 2.50 mm		2 µm	
Spring force	0 mN to 44450 mN		3 mN	
Indenter				
Shaft diameter	1.15 mm to 1.39 mm		1.2 µm	
Cone stump diameter	0.76 mm to 0.82 mm		1.5 µm	
Cone angle	34.75° to 35.25°		0.035°	
Pressure plate				
Outer diameter	17.50 mm to 18.50 mm		0.02 mm	
Bore diameter	2.50 mm to 3.10 mm		0.01 mm	
Load weight	5.000 kg to 5.500 kg		20 g	
Measuring devices for the Hardness scale Shore E*	0 Shore to 100 Shore		1.0 Shore	
Measuring distance	0 mm to 2.50 mm		2 µm	
Spring force	0 mN to 8050 mN		2 mN	
Indenter				
Ball diameter	4.92 mm to 5.08 mm		2 µm	
Pressure plate				
Pressure plate surface	≥ 500 mm ²		5 mm ²	
Bore diameter	5.80 mm to 6.20 mm		0.01 mm	
Load weight	1.000 kg to 1.100 kg		10 g	

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Permanent Laboratory and On-site Calibration

Calibration and Measurement Capabilities (CMC)

Measurement quantity / Calibration item	Range	Measurement conditions / procedure	Expanded uncertainty of measurement	Remarks
Hardness (MTM)				
Measuring device for the Hardness scale Hardness L and L/c*	0 Hardness-units to 100 Hardness-units	ASTM D 2240:2015	1.0 hardness-units	direct measurement with reference standards for distance and force
Measuring distance	0 mm to 2.50 mm		2 μm	
Spring force	0 mN to 8050 mN		2 mN	
Indenter				
Ball diameter	4.92 mm to 5.08 mm		2 μm	
Pressure plate				
Outer diameter	17.50 mm to 18.50 mm		0.02 mm	
Bore diameter	5.80 mm to 6.20 mm		0.01 mm	
Load weight	1.000 kg to 1.100 kg		10 g	
Measuring device for the Hardness scale Pusey & Jones*	0 to 300 PJ	DIN ISO 48-8:2021 ASTM D 531:2015 DIN ISO 48-9:2021	1.0 Pusey & Jones (PJ)	
Measuring distance	0 mm to 3.00 mm		2 μm	
Total force	9787 mN to 9826 mN		2.9 mN	
Indenter				
Ball diameter	3.16 mm to 3.19 mm		2 μm	
Measuring device for the Hardness scale Barcol*	0 to 100 Barcol	ASTM D 2583a:2025 DIN EN 59:2016	1.0 Barcol	
Measuring distance	0.74 mm to 0.78 mm		2 μm	
Spring force	60.8 N to 71.6 N		0.07 N	
Indenter				
Diameter of the truncated cone	0.137 mm to 0.177 mm		1.5 μm	
Taper angle	25.75° to 26.25°		0.035°	
Mechanical work (MTM)*				
Abrasion resistance tester	5 N to 20 N	DIN ISO 4649:2017	friction force: 0.12 % cylinder diameter: 0.02 mm friction distance: 0.02 m frequency: 0.05 min ⁻¹	the measuring uncertainty will be calculated separately for: 1. friction force 2. cylinder diameter 3. friction distance 4. frequency
Resilience elasticity tester (Schob-Pendulum)	0 J to 0.5 J	DIN 53512:2000 ISO 4662:2017	force: 0.12 % pendulum length: 0.1 mm angle: 0.03° time: 0.2 s	the measuring uncertainty will be calculated separately for: 1. position of the oscillation center 2. potential energy 3. deviation of the indicated energy

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Only Permanent Laboratory

Calibration and Measurement Capabilities (CMC)

Measurement quantity / Calibration item	Range	Measurement conditions / procedure	Expanded uncertainty of measurement	Remarks
Hardness Calibration of standard rubber blocks		DIN ISO 48-4:2021 DIN EN ISO 868:2003		direct measurement with reference standards for hardness
Shore A/D*	20 Shore to 90 Shore		2.0 Shore	
Shore AM/M*	20 Shore to 90 Shore	DIN ISO 48-4:2021 ASTM D 2240:2015	2.0 Shore	
Shore A0*	20 Shore to 90 Shore	DIN ISO 48-4:2021 ASTM D 2240:2015	2.0 Shore	
Shore 0/00/000/000-S/ B/C/D0/E*	20 Shore to 90 Shore		2.0 Shore	
Hardness L*	20 Hardness L to 90 Hardness L	ASTM D 2240:2015	2.0 hardness-units	
Hardness L/c*	20 Hardness L/c to 90 Hardness L/c			
IRHD M (micro)*	30 IRHD to 90 IRHD	DIN ISO 48-2:2021	2.0 IRHD	
IRHD N (normal)*	30 IRHD to 90 IRHD			
IRHD L (low)*	10 IRHD to 34.9 IRHD			
IRHD H (hard)*	85 IRHD to 100 IRHD			
VLRH*	20 VLRH to 90 VLRH	DIN ISO 48-3:2021	2.0 VLRH	
Pusey & Jones*	30 PJ to 300 PJ	DIN ISO 48-8:2021 ASTM D 531:2015	2.0 Pusey & Jones (PJ)	
Barcol*	30 Barcol to 90 Barcol	ASTM D 2583a:2025 DIN EN 59:2016	2.0 Barcol	
Micro Shore A*	0 M Shore A to 100 M Shore A	DIN ISO 48-9:2021 DIN ISO 48-2:2021 DIN ISO 48-4:2021 DIN ISO 48-3:2021	2.0 M Shore A	
Micro Shore D*	30 M Shore D to 100 M Shore D	DIN ISO 48-9:2021 DIN ISO 48-4:2021 DIN ISO 48-3:2021	2.0 M Shore D	
0 – 2 N	0 N to 2.0 N	QMV7.2.10-3	0.02 N	
0 – 20 N	0 N to 20.0 N	QMV7.2.10-3	0.2 N	
Extension (MTM) Device for penetration depth measurement kal-rock for Rockwell-Hardness-Testers	- 250 µm to 250 µm	DIN EN ISO 9513:2013	0.15 µm	direct measurement with reference standards for extension

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Annex to the Accreditation Certificate D-K-15206-01-01

Only On-site Calibration

Calibration and Measurement Capabilities (CMC)

Measurement quantity / Calibration item	Range	Measurement conditions / procedure	Expanded uncertainty of measurement	Remarks
Weighing instruments* nonautomatic weighing instruments	bis 610 g	EURAMET Calibration Guide No. 18 version 4.0 (11/2015) Richtlinie DKD-R 7-2 (01/2018)	$2 \cdot 10^{-6}$	with weights for OIML R 111-1:2004 according to class E ₂
	bis 20 kg		$6 \cdot 10^{-6}$	with weights for OIML R 111-1:2004 according to class F ₁

Abbreviations used:

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
ASTM	ASTM American Society for Testing and Materials
CMC	Calibration and measurement capabilities (Kalibrier- und Messmöglichkeiten)
DKD-R	Richtlinie des Deutschen Kalibrierdienstes (DKD), herausgegeben von der Physikalisch-Technischen Bundesanstalt
EURAMET	European Association of National Metrology Institutes
OIML	Organisation Internationale de Métrologie Légale
QMV	internal calibration procedure of Bareiss Prüfgerätebau GmbH

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