

Deutsche Akkreditierungsstelle GmbH
German Accreditation Body

Annex to the Accreditation Certificate D-K-15138-01-00
according to ISO/IEC 17025:2005

Period of validity: 10.11.2017 to 09.11.2022

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Holder of certificate:

Instituto Nacional de Tecnología, Normalización y Metrología, INTN
Avenida Artigas No. 3973, CC 967 Asunción, Paraguay

Head: Arnaldo Benito Florencio Etcheverry

Deputy: Maria Lourdes Valenzuela Aldana

Accredited since: 04.04.2008

Calibrations in the fields:

Mechanical quantities

- **Mass (mass standards)**

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Permanent Laboratory

Measured quantity / Calibration item	Range	Measurement conditions / procedure	Best measurement capability ¹⁾	Remarks		
Conventional Mass	1 mg	OIML R 111-1:2004	0,003 mg	For weight pieces according to OIML R 111-1:2004, class E ₂		
	2 mg		0,003 mg			
	5 mg		0,003 mg			
	10 mg		0,003 mg			
	20 mg		0,003 mg			
	50 mg		0,004 mg			
	100 mg		0,005 mg			
	200 mg		0,006 mg			
	500 mg		0,008 mg			
	1 g		0,010 mg			
	2 g		0,012 mg			
	5 g		0,016 mg			
	10 g		0,020 mg			
	20 g		0,025 mg			
	50 g		0,03 mg			
	100 g		0,05 mg			
	200 g		0,10 mg			
	500 g		0,25 mg			
	Conventional Mass		1 kg		0,5 mg	For weight pieces according to OIML R 111-1:2004, class F ₁
			2 kg		3,0 mg	
5 kg			8,0 mg			
10 kg			16 mg			
20 kg			30 mg			
Mass and Conventional Mass	1 mg to 100 mg	OIML R 111-1:2004	0,016 mg	For free nominal values <i>m</i> : measured value		
	> 100 mg to 200 mg		0,020 mg			
	> 200 mg to 500 mg		0,025 mg			
	> 500 mg to 1 g		0,03 mg			
	> 1 g to 2 g		0,04 mg			
	> 2 g to 5 g		0,05 mg			
	> 5 g to 10 g		0,06 mg			
	> 10 g to 20 g		0,08 mg			
	> 20 g to 50 g		0,10 mg			
	> 50 g to 100 g		0,16 mg			
	> 100 g to 1 kg		$1,6 \cdot 10^{-6} \cdot m$			
	> 1 kg to 20 kg		$5 \cdot 10^{-6} \cdot m$			

Abbreviation used:

OIML R Recommendation of International Organization of Legal Metrology

¹⁾ The best measurement capabilities are stated according to EA-4/02. These are expanded uncertainties of measurement with a coverage probability of 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.