



INM - Instituto Nacional de Metrología

Masa

Calibration and Measurement Capability (CMC) - Mass Laboratory INM Declarations DAkS D-K-17296-01-00

Calibration or Measurement Service			Measurand Level or Range			Expanded Uncertainty					Reference Standard used in calibration	
Quantity/Class	Instrument or Artifact	Instrument Type or Method	Minimum value	Maximum value	Units	Value	Units	Coverage Factor	Level of Confidence	Is the expanded uncertainty a relative one?	Standard	Source of traceability
Mass	Mass standard	Direct comparison	1	1	mg	0.002	mg	2	95%	No	E1	PTB
Mass	Mass standard	Direct comparison	2	2	mg	0.002	mg	2	95%	No	E1	PTB
Mass	Mass standard	Direct comparison	5	5	mg	0.002	mg	2	95%	No	E1	PTB
Mass	Mass standard	Direct comparison	10	10	mg	0.003	mg	2	95%	No	E1	PTB
Mass	Mass standard	Direct comparison	20	20	mg	0.003	mg	2	95%	No	E1	PTB
Mass	Mass standard	Direct comparison	50	50	mg	0.004	mg	2	95%	No	E1	PTB
Mass	Mass standard	Direct comparison	100	100	mg	0.005	mg	2	95%	No	E1	PTB
Mass	Mass standard	Direct comparison	200	200	mg	0.006	mg	2	95%	No	E1	PTB
Mass	Mass standard	Direct comparison	500	500	mg	0.008	mg	2	95%	No	E1	PTB
Mass	Mass standard	Direct comparison	1	1	g	0.010	mg	2	95%	No	E1	PTB
Mass	Mass standard	Direct comparison	2	2	g	0.012	mg	2	95%	No	E1	PTB
Mass	Mass standard	Direct comparison	5	5	g	0.016	mg	2	95%	No	E1	PTB
Mass	Mass standard	Direct comparison	10	10	g	0.020	mg	2	95%	No	E1	PTB
Mass	Mass standard	Direct comparison	20	20	g	0.025	mg	2	95%	No	E1	PTB
Mass	Mass standard	Direct comparison	50	50	g	0.03	mg	2	95%	No	E1	PTB
Mass	Mass standard	Direct comparison	100	100	g	0.05	mg	2	95%	No	E1	PTB
Mass	Mass standard	Direct comparison	200	200	g	0.1	mg	2	95%	No	E1	PTB
Mass	Mass standard	Direct comparison	500	500	g	0.25	mg	2	95%	No	E1	PTB
Mass	Mass standard	Direct comparison	1	1	kg	0.5	mg	2	95%	No	E1	PTB
Mass	Mass standard	Direct comparison	2	2	kg	1	mg	2	95%	No	E1	PTB
Mass	Mass standard	Direct comparison	5	5	kg	2.5	mg	2	95%	No	E1	PTB
Mass	Mass standard	Direct comparison	10	10	kg	5	mg	2	95%	No	E1	PTB
Mass	Mass standard	Direct comparison	20	20	kg	10	mg	2	95%	No	E1	PTB

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Quantity/Class	Instrument or Artifact	Instrument Type or Method	Minimum value	Maximum value	Units	Value	Units	Coverage Factor	Level of Confidence	Is the expanded uncertainty a relative one?	Standard	Source of traceability
Mass	Mass standard	Direct comparison	50	50	kg	25	mg	2	95%	No	E1	PTB
Mass	Mass standard	Direct comparison	100	100	kg	1.6	mg	2	95%	No	F1	INM
Mass	Mass standard	Direct comparison	200	200	kg	3.0	mg	2	95%	No	F1	INM
Mass	Mass standard	Direct comparison	500	500	kg	8.0	mg	2	95%	No	F1	INM
Mass	Weights with free nominal values	Direct comparison	1	100	mg	0.005	mg	2	95%	No	E1	PTB
Mass	Weights with free nominal values	Direct comparison	100	200	mg	0.006	mg	2	95%	No	E1	PTB
Mass	Weights with free nominal values	Direct comparison	200	500	mg	0.008	mg	2	95%	No	E1	PTB
Mass	Weights with free nominal values	Direct comparison	0.5	1	g	0.010	mg	2	95%	No	E1	PTB
Mass	Weights with free nominal values	Direct comparison	1	2	mg	0.012	mg	2	95%	No	E1	PTB
Mass	Weights with free nominal values	Direct comparison	2	5	g	0.015	mg	2	95%	No	E1	PTB
Mass	Weights with free nominal values	Direct comparison	5	10	g	0.020	mg	2	95%	No	E1	PTB
Mass	Weights with free nominal values	Direct comparison	10	20	g	0.025	mg	2	95%	No	E1	PTB
Mass	Weights with free nominal values	Direct comparison	20	50	g	0.030	mg	2	95%	No	E1	PTB
Mass	Weights with free nominal values	Direct comparison	50	100	g	0.05	mg	2	95%	No	E1	PTB
Mass	Weights with free nominal values	Direct comparison	0.1	20	kg	$5 \cdot 10^{-7} \cdot m_c$	mg	2	95%	No	E1	PTB
Mass	Weights with free nominal values	Direct comparison	20	50	kg	$5 \cdot 10^{-5} \cdot m_c$	mg	2	95%	No	E1	PTB

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