

**Mass and Related Quantities, Serbia, DMDM (Directorate of Measures and Precious Metals)**

Calibration or Measurement Service			Measurand Level or Range			Measurement Conditions/Independent Variable		Expanded Uncertainty					Comments	NMI Service Identifier
Class	Instrument or Artifact	Instrument Type or Method	Minimum value	Maximum value	Units	Parameter	Specifications	Value	Units	Coverage Factor	Level of Confidence	Is the expanded uncertainty a relative one?		
Conventional mass	Mass standards	Comparison in air	1	100	mg	Temperature	(20 to 24) °C with max ± 0.3 °C/h and max ± 0.5 °C/12 h	1.3 to 2	µg	2	95%	No	Approved on 04 May 2010	
						Relative humidity	40 % to 60 % with max ± 5 % per 4 hours							
						Pressure	995 hPa to 1020 hPa							
Conventional mass	Mass standards	Comparison in air	0.1	1	g	Temperature	(20 to 24) °C with max ± 0.3 °C/h and max ± 0.5 °C/12 h	2 to 4	µg	2	95%	No	Approved on 04 May 2010	
						Relative humidity	40 % to 60 % with max ± 5 % per 4 hours							
						Pressure	995 hPa to 1020 hPa							
Conventional mass	Mass standards	Comparison in air	1	10	g	Temperature	(20 to 24) °C with max ± 0.3 °C/h and max ± 0.5 °C/12 h	4 to 8	µg	2	95%	No	Approved on 04 May 2010	
						Relative humidity	40 % to 60 % with max ± 5 % per 4 hours							
						Pressure	995 hPa to 1020 hPa							
Conventional mass	Mass standards	Comparison in air	10	100	g	Temperature	(20 to 24) °C with max ± 0.3 °C/h and max ± 0.5 °C/12 h	8 to 22	µg	2	95%	No	Approved on 04 May 2010	
						Relative humidity	40 % to 60 % with max ± 5 % per 4 hours							
						Pressure	995 hPa to 1020 hPa							
Conventional mass	Mass standards	Comparison in air	0.1	1	kg	Temperature	(20 to 24) °C with max ± 0.3 °C/h and max ± 0.5 °C/12 h	22 to 220	µg	2	95%	No	Approved on 04 May 2010	
						Relative humidity	40 % to 60 % with max ± 5 % per 4 hours							
						Pressure	995 hPa to 1020 hPa							

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Class	Instrument or Artifact	Instrument Type or Method	Minimum value	Maximum value	Units	Parameter	Specifications	Value	Units	Coverage Factor	Level of Confidence	Is the expanded uncertainty a relative one?		
Conventional mass	Mass standards	Comparison in air	1	10	kg	Temperature	(20 to 24) °C with max ± 0.3 °C/h and max ± 0.5 °C/12 h	0.22 to 2.2	mg	2	95%	No	Approved on 04 May 2010	
						Relative humidity	40 % to 60 % with max ± 5 % per 4 hours							
						Pressure	995 hPa to 1020 hPa							
Conventional mass	Mass standards	Comparison in air	10	20	kg	Temperature	(20 to 24) °C with max ± 0.3 °C/h and max ± 0.5 °C/12 h	2.2 to 10	mg	2	95%	No	Approved on 04 May 2010	
						Relative humidity	40 % to 60 % with max ± 5 % per 4 hours							
						Pressure	995 hPa to 1020 hPa							
Conventional mass	Mass standards	Comparison in air	20	50	kg	Temperature	(20 to 24) °C with max ± 1.5 °C/h and max ± 2 °C/12 h	10 to 80	mg	2	95%	No	Approved on 04 May 2010	
						Relative humidity	40 % to 60 % with max ± 10 % per 4 hours							
						Pressure	995 hPa to 1020 hPa							
Conventional mass	Mass standards	Comparison in air	50	100	kg	Temperature	(20 to 24) °C with max ± 1.5 °C/h and max ± 2 °C/12 h	80 to 500	mg	2	95%	No	Approved on 04 May 2010	
						Relative humidity	40 % to 60 % with max ± 10 % per 4 hours							
						Pressure	995 hPa to 1020 hPa							
Conventional mass	Mass standards	Comparison in air	100	500	kg	Temperature	(20 to 24) °C with max ± 1.5 °C/h and max ± 2 °C/12 h	0.5 to 8	g	2	95%	No	Approved on 04 May 2010	
						Relative humidity	40 % to 60 % with max ± 10 % per 4 hours							
						Pressure	995 hPa to 1020 hPa							

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Class	Instrument or Artifact	Instrument Type or Method	Minimum value	Maximum value	Units	Parameter	Specifications	Value	Units	Coverage Factor	Level of Confidence	Is the expanded uncertainty a relative one?		
Volume of liquid	Pycnometers	Gravimetric	1	100	mL	Liquid	water	0.015	%	2	95%	Yes	Approved on 17 November 2017	RU-Z05
						Reference temperature	20 °C							
Volume of liquid	Glassware equipment (Pipettes, flasks, burettes, cylinders)	Gravimetric	1	10000	mL	Liquid	water	0.015	%	2	95%	Yes	Approved on 17 November 2017	RU-Z03
						Reference temperature	20 °C							
Volume of liquid	Proving tanks and overflow pipettes	Gravimetric	5	500	L	Liquid	water	0.02	%	2	95%	Yes	Approved on 17 November 2017	RU-Z02, RU-Z04
						Reference temperature	20 °C							
Volume of liquid	Proving tanks	Volumetric	5	5000	L	Liquid	water	0.03	%	2	95%	Yes	Approved on 17 November 2017	RU-Z06
						Reference temperature	20 °C							
Volume of liquid	Standard test measures and overflow pipettes	Gravimetric	1	20	L	Liquid	water	0.02 to 0.01	%	2	95%	Yes	Approved on 17 November 2017	RU-Z04, RU-Z02
						Reference temperature	20 °C							
Volume of liquid	Standard test measures	Volumetric	1	20	L	Liquid	water	0.03	%	2	95%	Yes	Approved on 08 October 2012	RU-Z06
						Reference temperature	20 °C							
Volume of liquid	Micropipettes or piston pipettes	Gravimetric	10	20000	µL	Liquid	water	0.6 to 0.2	%	2	95%	Yes	Approved on 17 November 2017	RU-Z01

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Class	Instrument or Artifact	Instrument Type or Method	Minimum value	Maximum value	Units	Parameter	Specifications	Value	Units	Coverage Factor	Level of Confidence	Is the expanded uncertainty a relative one?		
						Reference temperature	20 °C							
Volume of liquid	Piston operating apparatus (burettes, dispensers)	Gravimetric	0.1	100	mL	Liquid	water	0.1 to 0.02	%	2	95%	Yes	Approved on 17 November 2017	RU-Z01
						Reference temperature	20 °C							
Volume gas flow rate	Gas flow meters, gas meters	Turbine, rotary	0.6	10000	m <sup>3</sup> /h	Fluid	air	0.5 for (0.6 - 4) m <sup>3</sup> /h; 0.35 for (4.5 - 10000) m <sup>3</sup> /h	%	2	95%	Yes	Approved on 17 November 2017	RU-Z08
						Temperature	18.0 °C to 24.0 °C							
						Pressure	0.1 MPa							
						Pipe size	DN50 - DN500							