Mass, Chinese TAIPEI, CMS (Center for Measurement Standards)

Calibration or Measurement Service			Measurand Level or Range			Measurement Conditions/Independent Variable			Expa	anded Unce				
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?	NMI internal service identifier	Comments
Mass	Mass standard	Comparison in air	1	5	mg			0.53 to 0.77	hâ	2.1 to 2.0	95%	No	1	
Mass	Mass standard	Comparison in air	10	50	mg			0.46 to 0.67	μg	2.0	95%	No	2	
Mass	Mass standard	Comparison in air	0.1	5	g			0.62 to 6.1	μg	2.0	95%	No	3	
Mass	Mass standard	Comparison in air	10	50	g			5.6 to 21	μg	2.0 to 2.2	95%	No	4	
Mass	Mass standard	Comparison in air	100	500	g			17 to 22	μg	2.0	95%	No	5	
Mass	Mass standard	Comparison in air	1	1	kg			0.033	mg	2.0	95%	No	6	
Mass	Mass standard	Comparison in air	2	50	kg			0.32 to 15	mg	2.0 to 2.1	95%	No	7	
Mass	Mass standard	Comparison in air	50	100	kg			0.5	g	2.0	95%	No	8	
Mass	Mass standard	Comparison in air	100	200	kg			0.6	g	2.0	95%	No	9	
Mass	Mass standard	Comparison in air	200	1000	kg			3.0E-06		2.0	95%	Yes	10	
Force, tension, compression	Force measuring device	Direct comparison	500	5000	N			2E-05		2	95%	Yes	11	
Force, tension, compression	Force measuring device	Direct comparison	5	50	kN			3E-05		2	95%	Yes	12	
Force, compression	Force measuring device	Direct comparison	50	500	kN			3E-04		2	95%	Yes	13	

Calibration and Measurement Capabilities

Calibra	ation or Measureme	Measurand Level or Range			Measurement Conditions/Independent Variable			Expa	anded Unce					
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?	NMI internal service identifier	Comments
Force, compression	Force measuring device	Direct comparison	500	2000	kN			3E-04		2	95%	Yes	14	
Hardness	Hardess block	Rockwell A (with diamond indenter) according to ISO 6508:3	60	90	HR	Preliminary test force	98.07 N	0.3	HR	2	95%	No	15	
						Total test force	588.40 N							
Hardness	Hardess block	Rockwell B (with ball indenter) according to ISO 6508:3	40	100	HR	Preliminary test force	98.07 N	0.4	HR	2	95%	No	16	
						Total test force	980.7 N							
Hardness	Hardess block	Rockwell C (with diamond indenter) according to ISO 6508:3	20	65	HR	Preliminary test force	98.07 N	0.3	HR	2	95%	No	17	
						Total test force	1471 N							
Absolute pressure, gas medium	Pressure measuring device, vacuum gauge	Direct comparison with standard	5E-06	6E-04	Ра			0.078 to 0.074		2	95%	Yes	18	
Absolute pressure, gas medium	Pressure measuring device, vacuum gauge	Direct comparison with standard	6E-04	1	Pa			0.029		2	95%	Yes	19	
Absolute pressure, gas medium	Pressure measuring device, vacuum gauge	Direct comparison with standard	1	1000	Pa			0.018		2	95%	Yes	20	

Calibration or Measurement Service			Measurand Level or Range			Measurement Conditions/Independent Variable			Expa	anded Unce				
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?	NMI internal service identifier	Comments
Absolute pressure, gas medium	Pressure measuring device, standard pressure generator	Direct comparison with standard	1	372	kPa			Q[0.65, 2.6E- 05p], p pressure in Pa	Pa	2	95%	No	21	
Absolute pressure, gas medium	Pressure measuring device, standard pressure generator	Direct comparison with standard, cross float	372	700	kPa			2.2E-05		2	95%	Yes	22	
Absolute pressure, gas medium	Pressure measuring device, standard pressure generator	Direct comparison with standard, cross float	700	7000	kPa			4.2E-05		2	95%	Yes	23	
Gauge pressure, gas medium	Pressure measuring device, standard pressure generator	Direct comparison with standard	20	5700	Ра			(0.76 + 4.16E- 04p), p pressure in Pa	Pa	2	95%	No	24	
Gauge pressure, gas medium	Pressure measuring device, standard pressure generator	Direct comparison with standard, cross float	17	172	kPa			3.0E-05		2	95%	Yes	25	
Gauge pressure, gas medium	Pressure measuring device, standard pressure generator	Direct comparison with standard, cross float	172	700	kPa			2.2E-05		2	95%	Yes	26	
Gauge pressure, gas medium	Pressure measuring device, standard pressure generator	Direct comparison with standard, cross float	700	7000	kPa			4.2E-05		2	95%	Yes	27	
Gauge pressure, liquid medium	Pressure measuring device, standard pressure generator	Direct comparison with standard, cross float	2.8	28	MPa			2.8E-05		2	95%	Yes	28	

Calibr	ation or Measureme	Measurand Level or Range			Measurement Conditions/Independent Variable			Ехра	anded Unce					
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?	NMI internal service identifier	Comments
Gauge pressure, liquid medium	Pressure measuring device, standard pressure generator	Direct comparison with standard, cross float	28	273	MPa			6.3E-05		2	95%	Yes	29	

Calibration and Measurement Capabilities