

Mass and Related Quantities, Thailand, NIMT (National Institute of Metrology (Thailand))

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?		
Mass	Mass standards	Comparison in air	1	1	kg			0.16	mg	2	95%	No	Approved on 20 August 2013	10010-10101
Mass	Mass standards	Comparison in air	1	100	mg			0.6 to 1.6	µg	2	95%	No	Approved on 20 August 2013	10010-10101
Mass	Mass standard	Comparison in air	0.1	1	g			1.6 to 3	µg	2	95%	No	Approved on 20 August 2013	10010-10101
Mass	Mass standard	Comparison in air	1	10	g			3 to 6	µg	2	95%	No	Approved on 20 August 2013	10010-10101
Mass	Mass standard	Comparison in air	10	100	g			6 to 16	µg	2	95%	No	Approved on 20 August 2013	10010-10101
Mass	Mass standards	Comparison in air	0.1	1	kg			16 to 160	µg	2	95%	No	Approved on 20 August 2013	10010-10101
Mass	Mass standard	Comparison in air	1	10	kg			0.16 to 1.7	mg	2	95%	No	Approved on 20 August 2013	10010-10101 to 10010-10104
Mass	Mass standard	Comparison in air	10	100	kg			1.7 to 270	mg	2	95%	No	Approved on 20 August 2013	10010-10104 to 10011-10402
Absolute pressure, gas medium	Pressure gauge	Direct comparison with pressure standard	3.5	1750	kPa			3E-05P, P pressure in kPa, or 0.8 Pa whichever is greater	kPa	2	95%	No	Approved on 18 April 2006. Uncertainty values range from 0.8 Pa to 52.5 Pa	20
Absolute pressure, gas medium	Pressure gauge	Direct comparison with pressure standard	1.75	7	MPa			4E-05P, P pressure in MPa	MPa	2	95%	No	Approved on 18 April 2006. Uncertainty values range from 70 Pa to 280 Pa	21
Absolute pressure, oil medium	Pressure gauge	Direct comparison with pressure standard	0.1	7.1	MPa			3E-05P, P pressure in MPa, or 21 Pa whichever is greater	MPa	2	95%	No	Approved on 18 April 2006. Uncertainty values range from 21 Pa to 213 Pa	22
Absolute pressure, oil medium	Pressure gauge	Direct comparison with pressure standard	7.1	70.1	MPa			4E-05P, P pressure in MPa	MPa	2	95%	No	Approved on 18 April 2006. Uncertainty values range from 2.1E+02 Pa to 2.8E+03 Pa	23
Absolute pressure, oil medium	Pressure gauge	Direct comparison with pressure standard	70.1	140.1	MPa			5E-05P, P pressure in MPa	MPa	2	95%	No	Approved on 18 April 2006. Uncertainty values range from 2.8E+03 Pa to 7.0E+03 Pa	24

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Gauge pressure, gas medium	Pressure gauge	Direct comparison with pressure standard	-1	3	kPa			3E-04 <i>P</i> , <i>P</i> pressure in kPa, or 0.3 Pa whichever is greater	kPa	2	95%	No	Approved on 18 April 2006. Uncertainty values range from 0.3 Pa to 0.9 Pa	25
Gauge pressure, gas medium	Pressure balance	Direct comparison with pressure standard: crossfloat	3.5	1750	kPa			3E-05 <i>P</i> , <i>P</i> pressure in kPa, or 0.8 Pa whichever is greater	kPa	2	95%	No	Approved on 18 April 2006. Uncertainty values range from 0.8 Pa to 52.5 Pa	26
Gauge pressure, gas medium	Pressure balance	Direct comparison with pressure standard: crossfloat	1.75	7	MPa			4E-05 <i>P</i> , <i>P</i> pressure in MPa	MPa	2	95%	No	Approved on 18 April 2006. Uncertainty values range from 70 Pa to 280 Pa	27
Gauge pressure, oil medium	Pressure balance	Direct comparison with pressure standard: crossfloat	0.57	7	MPa			3E-05 <i>P</i> , <i>P</i> pressure in MPa, or 21 Pa whichever is greater	MPa	2	95%	No	Approved on 18 April 2006. Uncertainty values range from 21 Pa to 210 Pa	28
Gauge pressure, oil medium	Pressure balance	Direct comparison with pressure standard: crossfloat	7	70	MPa			4E-05 <i>P</i> , <i>P</i> pressure in MPa	MPa	2	95%	No	Approved on 18 April 2006. Uncertainty values range from 2.1E+02 Pa to 2.8E+03 Pa	29
Gauge pressure, oil medium	Pressure balance	Direct comparison with pressure standard: crossfloat	70	140	MPa			5E-05 <i>P</i> , <i>P</i> pressure in MPa	MPa	2	95%	No	Approved on 18 April 2006. Uncertainty values range from 2.8E+03 Pa to 7.0E+03 Pa	30

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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?		
Hardness	Hardness Block	Rockwell C according to ISO 6508-3	20	70	HRC	Preliminary Test Force	98.07 N	0.40	HRC	2	95%	No	Accredited by -Thai Industrial Standards Institute (TISI): Accreditation No. CALIBRATION 0144 (21 Sep 2009 to recent) - International Accreditation Japan (IA Japan): ASNITE 0009C (23 Jun 2004 to 21 Sep 2009) Approved on 23.June 2016	10050-20103
						Total Test Force	1471.05 N							
Hardness	Hardness Block	Rockwell A according to ISO 6508-3	20	88	HRA	Preliminary Test Force	98.07 N	0.40	HRA	2	95%	No	Accredited by -Thai Industrial Standards Institute (TISI): Accreditation No. CALIBRATION 0144 (21 Sep 2009 to recent) - International Accreditation Japan (IA Japan): ASNITE 0009C (23 Jun 2004 to 21 Sep 2009) Approved on 23.June 2016	10050-20101
						Total Test Force	588.4 N							

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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?		
Hardness	Hardness Block	Rockwell B according to ISO 6508-3	20	100	HRB	Preliminary Test Force	98.07 N	0.40	HRB	2	95%	No	Accredited by -Thai Industrial Standards Institute (TISI): Accreditation No. CALIBRATION 0144 (21 Sep 2009 to recent) - International Accreditation Japan (IA Japan): ASNITE 0009C (23 Jun 2004 to 21 Sep 2009) Approved on 23.June 2016	10050-20102
						Total Test Force	980.7 N							