

Length, Belarus, BelGIM (Belarussian State Institute for Metrology)

Calibration or Measurement Service			Measurand Level or Range			Measurement Conditions/Independent Variable		Expanded Uncertainty						
Class	Instrument or Artifact: Measurand	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
Laser radiations	Stabilized laser of the mise en pratique: absolute frequency	He-Ne / I2 laser, optical beat frequency	633	633	nm	Frequency	1 GHz	24	kHz	2	95%	No	COO-L-BelGIM 1111	Approved on 17 June 2005
End standards	Gauge block: central length L	Interferometry, exact fractions	0.1	100	mm			Q[30, 0.2L], L in mm, values range from 30 nm to 36 nm	nm	2	95%	No	COO-L-BelGIM 1221	Approved on 17 June 2005
End standards	Long gauge block: central length L	Mechanical comparator to long gauge block	100	1000	mm			Q[0.1, 1L], L in m, values range from 0.14 μm to 1.00 μm	μm	2	95%	No	COO-L-BelGIM 1222	Approved on 17 June 2005
Line standards	Engineer tape: line spacing L	Comparison method	0	20	m			Q[10, 10L], L in m, values range from 10 μm to 200 μm	μm	2	95%	No	COO-L-BelGIM 1237	Approved on 17 June 2005
Angle by circle dividers	Optical polygon: face angle	Laser goniometer	0	360	$^\circ$	Number of faces n	4, 8, 10, 12, 24, 36	0.14	"	2	95%	No	COO-L-BelGIM 1311	Approved on 17 June 2005
Angle instruments	Autocollimator: error of indicated angle	Mechanical examiner	0	1200	"			0.15	"	2	95%	No	COO-L-BelGIM 1331	Approved on 17 June 2005
Angle instruments	Electronic level: error of indicated inclination angle	Mechanical examiner	0	1200	"			0.15	"	2	95%	No	COO-L-BelGIM 1332	Approved on 17 June 2005

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Angle artefacts	Angle block: included angle	Laser goniometer	0	360	°			0.14	"	2	95%	No	COO-L-BelGIM 1341	Approved on 17 June 2005	
Straightness standards	Straight edge: straightness	Straightness standards	0	50	µm	Length <i>L</i>	0.2 m to 3.0 m	0.2 <i>L</i> , <i>L</i> in m	µm	2	95%	No	COO-L-BelGIM 1431	Approved on 17 June 2005	
Surface texture	Roughness standard: average parameter, <i>Ra</i>	Stylus instrument	0.02	10	µm			Q[1, 20 <i>Ra</i>], <i>Ra</i> in µm	nm	2	95%	No	COO-L-BelGIM 1514	Approved on 17 June 2005	
Surface texture	Roughness standard: peak parameter, <i>Rz</i>	Stylus instrument	0.02	10	µm			Q[6, 30 <i>Rz</i>], <i>Rz</i> in µm	nm	2	95%	No	COO-L-BelGIM 1514	Approved on 17 June 2005	
Gear standards	Spur gear: pitch, involute	Special set	1	10	mm	Gear diameter	60 mm to 350 mm	1.8	µm	2	95%	No	COO-L-BelGIM 1531	Approved on 17 June 2005	
Gear standards	Gear involute master, profile slope deviation (<i>fHa</i>), (<i>fa</i>)	Special set	37	150	mm			1.5	µm	2	95%	No	COO-L-BelGIM 1535	Approved on 17 June 2005	