

CERTIFICATE OF ACCREDITATION

Korea Testing Laboratory

Accreditation No. : KPTP-005

Corporation Registration No. : 254371-0012187

Address of Laboratory : 723, Hae-an-ro, Sangnok-gu, Ansan-si, Gyeonggi-do,
Republic of Korea

Date of Initial Accreditation : May 17, 2012

Validity of Accreditation : June 9, 2020 ~ June 8, 2024

Scope of Accreditation : Attached Annex

Date of issue : January 24, 2024

This proficiency testing provider is accredited in accordance with the recognized International Standard ISO/IEC 17043 : 2010. This accreditation demonstrates technical competence for a defined scope and the operation of a proficiency testing provider quality management system (refer to Joint ISO-ILAC-IAF Communiqué).



CHIN CHONGWOOK

Head

Korea Laboratory Accreditation Scheme

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cope : Calibration

01. Length and related quantities

item/matrix	characteristic(s) / measurand(s)	scheme	notes
Cylindrical ring gauges	Linear dimension	Calibration of cylindrical ring gauges	
Outside micrometers	Various dimensional	Calibration of outside micrometers	
Digital gauges	Various dimensional	Calibration of digital gauges	
Test indicators	Various dimensional	Calibration of test indicators	
Particle counters	Various dimensional	Calibration of particle counters	
Grind gauges	Various dimensional	Calibration of grind gauges	
Straight edges	Form	Calibration of straight edges	
Precision squares	Angle	Calibration of precision squares	
Cylindrical squares	Angle	Calibration of cylindrical squares	
Levels	Angle	Calibration of levels	
Precision squares	Angle	Calibration of precision squares	
Balls	Linear dimension	Calibration of balls	
Plug gauges	Linear dimension	Calibration of plug gauges	
End bars	Linear dimension	Calibration of end bars	

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02. Mass and related quantities

item/matrix	characteristic(s) / measurand(s)	scheme	notes
Charpy impact testers	Impact	Calibration of charpy impact testers	
Izod impact testers	Impact	Calibration of izod impact testers	
Vickers hardness testers	Hardness	Calibration of vickers hardness testers	
Flasks	Volume	Calibration of flasks	
Absolute pressure gauges	Pressure	Calibration of absolute pressure gauges	
Pressure transducers	Pressure	Calibration of pressure transducers	
Gauge pressure gauges	Pressure	Calibration of gauge pressure gauges	
Torque wrenches	Torque	Calibration of torque wrenches	
Push-pull gauges	Force	Calibration of push-pull gauges	
Weights	Mass	Calibration of weights	

03. Time/frequency

item/matrix	characteristic(s) / measurand(s)	scheme	notes
Tachometers	Time/frequency	Calibration of tachometers	

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04. Electricith & magnetism

item/matrix	characteristic(s) / measurand(s)	scheme	notes
Thermocouple power sensors	Radio frequency measurements	Calibration of thermocouple power sensors	
Coaxial attenuators	Radio frequency measurements	Calibration of coaxial attenuators	
High voltage generators	Other DC & LF measurement	Calibration of high voltage generators	
AC power supplies	AC voltage, current & power	Calibration of AC power supplies	
AC power meters	AC voltage, current & power	Calibration of AC power meters	
AC voltmeters	AC voltage, current & power	Calibration of AC voltmeters	
Standard capacitors	Resistance, capacitance and inductance	Calibration of standard capacitors	
Resistance meters	Resistance, capacitance and inductance	Calibration of resistance meters	
Resistors	Resistance, capacitance and inductance	Calibration of resistors	
DC voltage current calibrators	DC voltage & current	Calibration of DC voltage current calibrators	

05. Temperature & humidity

item/matrix	characteristic(s) / measurand(s)	scheme	notes
Polimer thinfilm hygrometers	Humidity	Calibration of polimer thinfilm hygrometers	
Relative humidity hygrometers	Humidity	Calibration of relative humidity hygrometers	
Relative humidity hygrometers	Humidity	Calibration of relative humidity hygrometers	
Standard radiation thermometers	Non contact thermometry	Calibration of standard radiation thermometers	
Dry-block calibrators	Contact thermometry	Calibration of dry-block calibrators	
Temperature indicators	Contact thermometry	Calibration of temperature indicators	
Resistance thermometers	Contact thermometry	Calibration of resistance thermometers	

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06. Sound & vibration

item/matrix	characteristic(s) / measurand(s)	scheme	notes
Vibration calibrators	Vibration	Calibration of vibration calibrators	
Vibration transducers	Vibration	Calibration of vibration transducers	

07. Photometry & radiometry

item/matrix	characteristic(s) / measurand(s)	scheme	notes
Illuminance meters	Photometry	Calibration of illuminance meters	
Luminance meters	Photometry	Calibration of luminance meters	

09. Amount of substance

item/matrix	characteristic(s) / measurand(s)	scheme	notes
Breath alcohol analyzers	Chemical analysis	Calibration of breath alcohol analyzers	
Gas analyzers	Chemical analysis	Calibration of gas analyzers	

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03. Electrical Testing

item/matrix	characteristic(s) / measurand(s)	scheme	notes
Electrical machinery for households	Space distance	Space distance test of electrical machinery for households	
	Leakage current	Leakage current test of electrical machinery for households	
	Motor capacitor resonance voltage	Motor capacitor resonance voltage test of electrical machinery for households	
	Performance test	Performance test test of electrical machinery for households	
	Power consumption	Power consumption test of electrical machinery for households	
	Creepage distance	Creepage distance test of electrical machinery for households	
	Temperature rise	Temperature rise test of electrical machinery for households	
	Input currentperformance test	Input currentperformance test test of electrical machinery for households	
	Current measurement	Current measurement test of electrical machinery for households	
	Power input	Power input test of electrical machinery for households	
	Power plug discharge	Power plug discharge test of electrical machinery for households	
	Ground continuity	Ground continuity test of electrical machinery for households	
	Rated input	Rated input test of electrical machinery for households	

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03. Electrical Testing

item/matrix	characteristic(s) / measurand(s)	scheme	notes
Measuring instruments	Leakage current	Leakage current test of measuring instruments	
	Error allowance tolerance	Error allowance tolerance test of measuring instruments	
	Temperature rise	Temperature rise test of measuring instruments	
	Ground continuity	Ground continuity test of measuring instruments	
	Rated input	Rated input test of measuring instruments	
Military equipment	Transient emission	Transient emission test of military equipment	
	Immunity	Immunity test of military equipment	
	Radiated emission	Radiated emission test of military equipment	
	Magnetic field emission	Magnetic field emission test of military equipment	
	Conducted emission	Conducted emission test of military equipment	

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03. Electrical Testing

item/matrix	characteristic(s) / measurand(s)	scheme	notes
Electrical machinery for industries	Temperature rise	Temperature rise test of electrical machinery for industries	
	Residual voltage	Residual voltage test of electrical machinery for industries	
	Resistance	Resistance test of electrical machinery for industries	
	Voltage	Voltage test of electrical machinery for industries	
	Insulation resistance	Insulation resistance test of electrical machinery for industries	
	Ground continuity	Ground continuity test of electrical machinery for industries	
	Rated input	Rated input test of electrical machinery for industries	
	Efficiency	Efficiency test of electrical machinery for industries	
Energy-saving products	Standby power	Standby power test of energy-saving products	
	Operation efficiency	Operation efficiency test of energy-saving products	
	Load loss	Load loss test of energy-saving products	
	Performance	Performance test of energy-saving products	
	Power consumption	Power consumption test of energy-saving products	

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03. Electrical Testing

item/matrix	characteristic(s) / measurand(s)	scheme	notes
Wired/wireless communication devices	Radiation output	Radiation output test of wired/wireless communication devices	
	Interoperability	Interoperability test of wired/wireless communication devices	
	Specific absorption rate	Specific absorption rate test of wired/wireless communication devices	
	Total Isotropic sensitivity	Total isotropic sensitivity test of wired/wireless communication devices	
	Total radiated power	Total radiated power test of wired/wireless communication devices	
General commercial equipment and special equipment	Environment and reliability	Environment and reliability test of general commercial equipment and special equipment	Temperature, humidity, vibration, exposure
Commercial equipment	Transient emission	Transient emission test of commercial equipment	
	Immunity	Immunity test of commercial equipment	
	Radiated emission	Radiated emission test of commercial equipment	
	Magnetic field emission	Magnetic field emission test of commercial equipment	
	Conducted emission	Conducted emission test of commercial equipment	

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03. Electrical Testing

item/matrix	characteristic(s) / measurand(s)	scheme	notes
Car related products	Transient emission	Transient emission test of car related products	
	Immunity	Immunity test of car related products	
	Radiated emission	Radiated emission test of car related products	
	Magnetic field emission	Magnetic field emission test of car related products	
	Conducted emission	Conducted emission test of car related products	
Electric cords, cables and circuits	Electrical resistance	Electrical resistance test of electric cords, cables and circuits	
Battery	Internal resistance	Internal resistance test of battery	
	Discharge performance	Discharge performance test of Battery	
	Rated capacity	Rated capacity test of battery	

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03. Electrical Testing

item/matrix	characteristic(s) / measurand(s)	scheme	notes
Information technology equipment	Transient emission	Transient emission test of information technology equipment	
	Immunity	Immunity test of information technology equipment	
	Radiated emission	Radiated emission test of information technology equipment	
	Magnetic field emission	Magnetic field emission test of information technology equipment	
	Conducted emission	Conducted emission test of information technology equipment	
Lighting devices	Light efficiency	Light efficiency test of lighting devices	
	All luminous flux	All luminous flux test of lighting devices	

06. Sound and Vibration Testing

item/matrix	characteristic(s) / measurand(s)	scheme	notes
Sound generation related products	Sound power level	Sound power level test of sound generation related products	
General commercial equipment and special equipment	Resonant frequency	Resonant frequency test of general commercial equipment and special equipment	

End.