

CERTIFICATE OF ACCREDITATION

Korea Testing Laboratory

Accreditation No. : KPTP005

Corporation Registration No. : 254371-0012187

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

Date of Initial Accreditation : May 17, 2012

Duration : June 9, 2020 ~ June 8, 2024

Scope of Accreditation : Attached Annex

Date of issue : July 26, 2022

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.



Sanghoon Lee

Head

Korea Laboratory Accreditation Scheme

No. KPTP005

Scope : Calibration

01. Length and related quantities

property	item/matrix	proficiency testing scheme
Linear dimension	Linear dimension measuring instrument	Calibration of linear dimension measuring instruments (e.g.: Cylindrical ring gauges)
Angle	Angle measuring instrument	Calibration of angle measuring instrument (e.g.: Cylindrical squares)
Form	Form measuring instrument	Calibration of form measuring instrument (e.g.: Straight edges)
Various dimensional	Various dimensional measuring instrument	Calibration of various dimensional measuring instrument (e.g.: Test indicators)

02. Mass and related quantities

property	item/matrix	proficiency testing scheme
Mass	Mass measuring instrument	Calibration of mass measuring instrument (e.g.: Weights)
Force	Force measuring instrument	Calibration of force measuring instrument (e.g.: Push-pull gauges)
Torque	Torque measuring instrument	Calibration of torque measuring instrument (e.g.: Torque wrenches)
Pressure	Pressure measuring instrument	Calibration of pressure measuring instrument (e.g.: Gauge pressure gauges)
Volume	Volume measuring instrument	Calibration of volume measuring instrument (e.g.: Flasks)
Hardness	Hardness measuring instrument	Calibration of hardness measuring instrument (e.g.: Vickers hardness testers)
Impact	Impact measuring instrument	Calibration of impact measuring instrument (e.g.: Charpy impact testers)

No. KPTP005

03. Time/frequency

property	item/matrix	proficiency testing scheme
Time/Frequency	Time/Frequency measuring instrument	Calibration of Time/Frequency measuring instrument (e.g.: Tachometers)

04. Electricith & magnetism

property	item/matrix	proficiency testing scheme
DC voltage & current	DC voltage & current measuring instrument	Calibration of DC voltage & current measuring instrument (e.g.: DC voltage/current calibrators)
Resistance, Capacitance and Inductance	Resistance, Capacitance and Inductance measuring instrument	Calibration of Resistance, Capacitance and Inductance measuring instrument (e.g.: Resistance meters)
AC voltage, current & power	AC voltage, current & power measuring instrument	Calibration of AC voltage, current & power measuring instrument (e.g.: AC power meters)
Other DC & LF measurement	Other DC & LF measurement measuring instrument	Calibration of Other DC & LF measurement measuring instrument (e.g.: high voltage generators)
Radio frequency measurements	Radio frequency measurements measuring instrument	Calibration of Radio frequency measurements measuring instrument (e.g.: Coaxial attenuators)

No. KPTP005

05. Temperature & humidity

property	item/matrix	proficiency testing scheme
Contact thermometry	Contact thermometry measuring instrument	Calibration of contact thermometry measuring instrument (e.g.: Resistance thermometers)
Non contact thermometry	Non contact thermometry measuring instrument	Calibration of non contact thermometry measuring instrument (e.g.: Standard radiation thermometers)
Humidity	Humidity measuring instrument	Calibration of humidity measuring instrument (e.g.: Relative humidity hygrometers)

06. Sound & vibration

property	item/matrix	proficiency testing scheme
Vibration	Vibration measuring instrument	Calibration of vibration measuring instrument (e.g.: Vibration transducers)

07. Photometry & radiometry

property	item/matrix	proficiency testing scheme
Photometry	Photometry measuring instrument	Calibration of photometry measuring instrument (e.g.: Illuminance meters)

09. Amount of substance

property	item/matrix	proficiency testing scheme
Chemical analysis	Chemical analysis measuring instrument	Calibration of chemical analysis measuring instrument (e.g.: Breath alcohol analyzers and Gas analyzers)

No. KPTP005

Scope : Testing

03. Electrical Testing

property	item/matrix	proficiency testing scheme
Discharge performance, rated capacity, internal resistance	Battery	Battery discharge performance (e.g.: Secondary battery discharge performance)
Rated input, ground continuity, temperature rise, Error allowance Tolerance	Laboratory equipment, meter	Rated input of laboratory equipment (e.g.: Rated input of electronic load)
Input current, power input, power consumption, rated input, current measurement, Motor capacitor resonance voltage, Space distance, creepage distance, Leakage current, ground continuity, temperature rise, power plug discharge, performance test	Household electric appliances	Safety test of household electric appliances (e.g.: Safety test of TV)
Specific absorption rate, radiation output, interoperability	Communication appliances	Specific absorption rate of communication appliances (e.g.: Specific Absorption Rate of cellphone(SAR))

No. KPTP005

Scope : Testing

03. Electrical Testing

property	item/matrix	proficiency testing scheme
All luminous flux, light efficiency	Lighting appliances	All luminous flux of lighting appliances (e.g.: All luminous flux of led luminaire)
Conducted emission, radiated emission, immunity	Commercial equipment, automotive electronics, military equipment, information technology equipment	Electromagnetic compatibility of equipment (e.g.: Electromagnetic compatibility of automotive electronics)
Power consumption, operation efficiency, performance, standby power, load loss	Electrical and electronic products	Operation efficiency of electrical and electronic products (e.g.: Standby power of monitor)
Temperature, humidity, vibration, exposure	General commercial equipment and special equipment	Environment and reliability of the equipment under test (e.g.: High temperature and low temperature related environment and reliability)

06. Sound and Vibration Testing

property	item/matrix	proficiency testing scheme
Sound power level	Sound generator	Sound power level of Sound generator (e.g.: Measuring sound power level of sound generator)
Vibration	General commercial equipment and special equipment	Vibration of the equipment under test (e.g.: Resonant frequency measurement)

End.