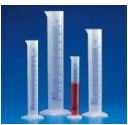


Scopes of Calibration and Accreditation

Field of Calibration	Properties of Measured / Equipment Under Calibration	Capability Range	Calibration Methods	ISO/IEC 17025 Accredited by ONSC-TISI (Thailand)		ISO/IEC 17025 Accredited by ANAB (USA)	
				LAB	ON-SITE	LAB	ON-SITE
Chemical	Chemical Analyzer Instruments						
	pH Meter	pH : 2, 4, 7, 10, 12	pH Solution and DCV Source	-	-	Yes	Yes
	pH Electrode	DCV: 0 - 10 V		-	-	Yes	Yes
	pH Controller			-	-	Yes	Yes
	Conductivity Meter	10, 84, 1000, 1413, 10000, 12880, 111800 uS/cm	Conductivity Solution	-	-	Yes	Yes
	Conductivity / Resistivity Meter			-	-	Yes	Yes
	Conductivity Controller			-	-	Yes	Yes
	EC Meter			-	-	Yes	Yes
	TDS Meter	1382, 1500 ppm	TDS Solution	-	-	Yes	Yes
	ORP Meter	240, 470 mV	ORP Solution	-	-	Yes	Yes
	Salinity Meter	0.3, 3, 58.4, 125, 1000 g/L NaCl	Salinity Solution	-	-	Yes	Yes
	Refractometer, Refractive Index	5, 10, 20, 30, 40, 50, 60 %Brix	Sucrose Solution	-	-	Yes	Yes
	DO Meter	Zero Co2	DO Solution	-	-	-	-
	Turbidity Meter		Turbidity Solution	-	-	-	-
Viscosity	Viscosity Meters	24 to 140,000 mPa.s	Viscosity Solution				
	- Dynamic Viscosity Meter	30 to 150,000 mm ² /s		-	-	Yes	Yes
	- Kinematic Viscosity Meter	0.8 to 0.9 g/cm ³		-	-	Yes	Yes
	- Density Viscosity Meter			-	-	Yes	Yes
Specific Gravity	Hydrometer	0.600 - 2.000 g/cm ³	ASTM E 542-01 and Cuckow Method				
	- Specific Gravity Hydrometers			-	-	Yes	-
	- Baumé Pattern Hydrometers			-	-	Yes	-
	- Alcohol Hydrometer (Richter + Tralles Pattern)			-	-	Yes	-
	- Alcohol Hydrometer (Gay-Lussac + Cartier Pattern)			-	-	Yes	-
	- Sugar Hydrometer (Saccharimeters, Brix Pattern)			-	-	Yes	-
	- API Hydrometer			-	-	Yes	-
Volumetric	Micropipette	Up to 6,000 mL	ISO 8655-6:2002 (E)	-	-	Yes	Yes
							
	Graduated Cylinder	Up to 6,000 mL	ASTM E 542-01	-	-	Yes	Yes
							
	Graduated Pipette	Up to 6,000 mL	ASTM E 542-01	-	-	Yes	Yes
							
	Volumetric Flask, Beaker	Up to 6,000 mL	ASTM E 542-01	-	-	Yes	Yes
							
	Volumetric Pipette	Up to 6,000 mL	ASTM E 542-01	-	-	Yes	Yes
							
	Buret	Up to 6,000 mL	ASTM E 542-01	-	-	Yes	Yes
							
	Single-Channel Piston Pipette	Up to 6,000 mL	ISO 8655-6			Yes	Yes
	Multi-Channel Piston Pipette	Up to 6,000 mL	ISO 8655-6			Yes	Yes
	Positive-displacement Pipette	Up to 6,000 mL	ISO 8655-6			Yes	Yes
	Piston Burette	Up to 6,000 mL	ISO 8655-6			Yes	Yes
	Dilutor	Up to 6,000 mL	ISO 8655-6			Yes	Yes
	Dispenser	Up to 6,000 mL	ISO 8655-6			Yes	Yes

Yes

-

= Accredited ISO/IEC 17025

= Not accredited scopes of ISO/IEC 17025