

Accreditation Scope

Quality Technical Services, NAL 095
Calibration Laboratory, (ISO/IEC 17025:2017)

MW4, Musaffah Industrial Area, Abu Dhabi, UAE

Issue Date: 18-10-2020

Expiry Date: 29-08-2021

Issue No: 05

Calibration Field/ Quantity/ Property	Measurand / Equipment	Measuring Range	CMC (k=2)	Calibration Method (Standard/ Internal Procedure)	Permanent lab (P) / Client-site (S)
Mass	Weighing Balance	(0 to 200) g	Class I	QTS/WP-02:2019, based on OIML R 76:2006	P / S
		(0 to 20) kg	Class II		
		(0 to 520) kg	Class III		
		(0 to 2) ton	Class IIII		
	Batching Plant	(0 to 10) ton	2% i	QTS/WP-10:2016	P / S
	Mass - Class F2	5 g to 5 kg	Class F2	QTS/WP-15:2019, based on OIML R111:2004	P
Mass – Class M	1 g to 20 kg	Class M1			
Force	Compression Machine Stability Testing	(200 to 2000) kN	Class 1	QTS/WP-16:2017	P / S
	Compression machine (CBR, Marshall testing machines, Flexural machine, Hydraulic jack, Point load tester, Proving Ring, etc.)	(0 to 300) kN	Class 0	QTS/WP-01:2019	P / S
		(300 to 3000) kN	Class 1		
Tension machine (Tensile testing machine, Pull off tester, etc.)	(0 to 300) kN	Class 0			
Dimensional	Vernier Caliper	(0 to 300) mm	30 µm	QTS/WP-05:2015	P
		(>300 to 1000) mm	50 µm		
	External Micrometer	(0 to 300) mm	4 µm	QTS/WP-06:2019	
	Internal micrometers (3 point micrometers)	(25, 75) mm	3 µm		
	Internal micrometers (2 point micrometers)	(0 to 600) mm	3 µm		

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Dimensional	Feeler Gauge	(0 to 1) mm	4 µm	QTS/WP-12:2017	P
	Radius gauge, radius measurement	(0 to 300) mm	0.03 mm	QTS/WP-29:2019	
	Protractor, angle gauges, angle measurement	0° to 360°	0.2°	QTS/WP-29:2019	
	Thickness Gauge	(0 to 50) mm	13 µm	QTS/WP-13:2017	
	Steel Ruler	(0 to 1) m	0.3 mm	QTS/WP-14:2019	
	Measuring Tape	(0 to 100) m	0.02 %i		
	Dial Gauge, displacement transducers	(0 to 600) mm	5 µm – 0.04 mm	QTS/WP-07:2019	
	Sieves	32 µm to 125 mm	9 µm	QTS/WP-27:2019	
Pressure	Vacuum Gauge	(-0.9 to 0) bar	0.3 bar	QTS/WP-09:2015	P / S
	Pressure Gauge, Pneumatic	(0 to 40) bar	0.4 bar		
	Pressure Gauge, Hydraulic	(0 to 600) bar	1.3 bar		
		(600 to 1000) bar	4.5 bar		
Temperature	Thermometer and temperature controllers	(-40 to 1200) °C	0.4 °C	QTS/WP-03:20165	P
	Liquid path, 10 sensors	(-30 to 300) °C	0.5 °C	QTS/WP-26:2019	P / S
	Glass thermometer	(-40 to 250) °C	0.25 °C	QTS/WP-24:2019	P
	Infrared thermometer	(-25 to 150) °C	1.5 °C	QTS/WP-25:2019	P
		(150 to 500) °C	9 °C		

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Temperature	Muffle Furnace, Drying Oven, ignition oven asphalt content, etc.	Ambient temperature up to 1370 °C	2.4 °C	QTSWP-19:2018	P / S
	Chillers, Incubators, Freezers	(-20 to 50) °C	1.4 °C	QTSWP-04:2015	
Temperature & Humidity	Thermo-hygrometer	(15 % to 95 %) RH (5 to 50) °C	5 % RH 1 °C	QTSWP-21:2019	P / S
Temperature & pressure	Autoclave	(25 to 140) °C (0 to 4) Bar	0.3 °C 0.1 Bar	QTSWP-36:2019	P / S
Rotational speed	Tachometer	(10 to 90000) RPM	0.36 %i	QTSWP-20:2019	P / S
Air Flow	Anemometer	(0 to 20) m/s	25 % i	QTSWP-31:2019	P
Humidity	Humidity chamber	15% RH to 95% RH	6 % RH	QTSWP-21:2019	P
pH	pH meter	(4, 7, 10) pH	0.3 pH	QTSWP-22:2019	P / S
Electrical conductivity	Electrical conductivity meter (EC)	(1200 to 14000) µS/cm @ 25 °C	4 % i	QTSWP-22:2019	P / S
Dissolved Solids in water	Water Dissolved Solids meter (DS)	941 ppm @ 25 °C	4 % i	QTSWP-22:2019	P / S
Viscosity	Kinematic viscosity	(400 to 35000) mm ² /s @ 25 °C	4 % i	QTSWP-22:2019	P / S
	Dynamic viscosity	(500 to 31500) mPa.s @ 25 °C	4 % i	QTSWP-22:2019	P / S
END					

i = measured value