



財團法人全國認證基金會
Taiwan Accreditation Foundation

Certificate of Accreditation

(Certificate No : L3758-240415)

This is to certify that

Qualitec International, Inc

Calibration laboratory

2F, No.75, Shuyi Road, Shuyi Village, Taichung 402, Taiwan, R.O.C.

is accredited in respect of laboratory

Accreditation Criteria : ISO/IEC 17025:2017 ; CNS 17025:2018

Accreditation Number : 3758

Originally Accredited : April 25, 2021

Effective Period : April 25, 2024 to April 24, 2027

Accredited Scope : Calibration Field, see described in the Appendix



Scan to verify

Yi-Ling Chen

Yi-Ling Chen
President, Taiwan Accreditation Foundation
April 15, 2024

Accreditation Number : 3758

Laboratory Head : HSIEH, Shang-Min

Mass/Force

calibration items	working standard	calibration method	measurand level or range				measurement conditions /independent variable	smallest uncertainty	
	brand /model	document name /no.	minimum value	units	maximum value	units	explanation	value	units
KC5001 Brinell Hardness Test Block HBW	Brinell Hardness Tester SUN-TEC/DLC-3100S Brinell Hardness Block SUN-TEC/HBW	ASTM E10	106	HBW	522	HBW	HBW (10 mm/3000 kgf)	7.0	HBW
Approval Signatory: HSIEH, Shang-Min									
KC5001 Rockell Hardness Test Block HRC, HRBW, HRA, HR30N, HR30TW	Rockwell Hardness Tester Future Tec/FR-3e Rockwell Hardness Block SUN-TEC/HRC, HRBW, HRA, HR30N, HR30TW	ASTM E18	21.9	HRC	65.4	HRC	HRC	0.8	HRC
			42.2	HRBW	95.4	HRBW	HRBW	1.2	HRBW
			63.1	HRA	83.7	HRA	HRA	0.6	HRA
			42.8	HR30N	80.8	HR30N	HR30N	0.9	HR30N
			44.0	HR30TW	78.0	HR30TW	HR30TW	0.9	HR30TW
Approval Signatory: HSIEH, Shang-Min									



calibration items	working standard	calibration method	measurand level or range				measurement conditions /independent variable	smallest uncertainty	
	brand /model	document name /no.	minimum value	units	maximum value	units	explanation	value	units
KC5001 Vickers hardness standard block HV	Microindention Hardness Tester Matsuzawa/MMT-X7B Vicker Hardness Tester Matsuzawa/VMT-X7 Vicker Hardness Block SUN-TEC/HV	ASTM E92	189	HV	843	HV	HV0.1	15	HV
			186	HV	829	HV	HV0.3	15	HV
			182	HV	830	HV	HV0.5	15	HV
			184	HV	819	HV	HV1.0	15	HV
			182	HV	813	HV	HV5	20	HV
			184	HV	812	HV	HV10	20	HV
			186	HV	808	HV	HV30	20	HV
Approval Signatory: HSIEH, Shang-Min									
KC5002 Brinell Hardness Tester (on-site calibration included)	Load cell Interface /1210ACK-500-B Load cell Interface /1210ACK-10K-B Brinell Harbness Block SUN-TEC/HBW	ASTM E10	62.5	kgf	<500	kgf	Load	0.3	kgf
			500	kgf	3000	kgf	Load	7.8	kgf
			106	HBW	522	HBW	HBW (10 mm/3000 kgf)	6.1	HBW
Approval Signatory: HSIEH, Shang-Min									
KC5002 Rockwell hardness tester (on-site calibration included)	Load Cell Interface /1210ACK-500-B Rockwell hardness standard block SUN-TEC/HRC, HRBW, HRA, HR30N, HR30TW Index master N.S.S/NM-1	ASTM E18	29.45 (3)	N (kgf)	441 (45)	N (kgf)	Load Rockwell superficial	0.4 (0.04)	N (kgf)
			98 (10)	N (kgf)	1471 (150)	N (kgf)	Load Rockwell	0.7 (0.07)	N (kgf)
			21.9	HRC	65.4	HRC	Hardness	0.5	HRC
			42.2	HRBW	95.4	HRBW	Hardness	0.8	HRBW
			63.1	HRA	83.7	HRA	Hardness	0.5	HRA



calibration items	working standard	calibration method	measurand level or range				measurement conditions /independent variable	smallest uncertainty	
			minimum value	units	maximum value	units		explanation	value
KC5002 Rockwell hardness tester (on-site calibration included)	Load Cell Interface /1210ACK-500-B Rockwell hardness standard block SUN-TEC /HRC, HRBW, HRA, HR30N, HR30TW Index master N.S.S/NM-1	ASTM E18	42.8	HR30N	80.8	HR30N	Hardness	0.7	HR30N
			44.0	HR30TW	78.0	HR30TW	Hardness	0.7	HR30TW
			0	HR	100	HR	Depth-measuring system	0.2	HR
Approval Signatory: HSIEH, Shang-Min									
KC5002 Vicker hardness tester (on-site calibration included)	Electronic balance AND/FX3000i Load Cell Interface /1210ACK-500-B Vicker hardness standard block SUN-TEC/HV	ASTM E92	0.98 (100)	N (gf)	9.8 (1000)	N (gf)	tiny Load	0.0003 (0.03)	N (gf)
			49.03 (5)	N (kgf)	294.2 (30)	N (kgf)	Vicker Load	0.3 (0.03)	N (kgf)
			184	HV	819	HV	manual measuring hardness HV0.1	14	HV
			182	HV	830	HV	manual measuring hardness HV0.3	14	HV
			186	HV	829	HV	manual measuring hardness HV0.5	14	HV
			189	HV	843	HV	manual measuring hardness HV1.0	14	HV
			182	HV	813	HV	manual measuring hardness HV5	20	HV
			184	HV	812	HV	manual measuring hardness HV1	20	HV
			186	HV	808	HV	manual measuring hardness HV30	20	HV
Approval Signatory: HSIEH, Shang-Min									

Note : Smallest uncertainty represents an expanded uncertainty using a coverage factor approximately 95 % level of confidence.
(Null Below)

