



## ACCURATE TECHNOLOGY

NO. 11, JALAN LEMBAH 3, TAMAN DESA JAYA  
81100, JOHOR BAHRU, JOHOR.  
TEL : 07- 353 2962 FAX : 07 - 351 9823



American National Standards Institute  
Accreditation Calibration  
ANSI Member : 264502  
ISO / IEC 17025

# CERTIFICATE OF CALIBRATION

CERTIFICATE NO. : AT 32142 - 19

SUBMITTED BY : TOPFIELD BORNEO SDN BHD  
NO . 50 , LOT . 2624 , 2 ND FLOOR  
KIDURONG GATEWAY , BUSINESS PARK  
BLOCK 20 , KEMENA LAND DISTRICT  
97000 , BINTULU , SARAWAK .

DATE OF ISSUE : 21 SEPTEMBER 2019

PAGE : 1 OF 2

INSTRUMENT : WET FILM THICKNESS GAUGE

BRAND : TOPFIELD BORNEO SDN BHD

MODEL : TOPGAUGE W F T - 918

INSTRUMENT CONDITION WHEN RECEIVED  
- GOOD PHYSICAL CONDITION

SERIAL NO : N 920 368

RANGE : 25.0 - 3000 um

STEP : 1,00 um

INSTRUMENT CONDITION WHEN RETURNED  
- CALIBRATED AND TESTED SERVICEABLE  
- NO ADJUSTMENT HAS DONE

CALIBRATION DATE : 21 SEPTEMBER 2019

RECOMMEND DUE DATE : 21 SEPTEMBER 2020

TEMPERATURE : 20.5 ° C ± 1.0 ° C

RELATIVE HUMIDITY : 45 % ± 5 % R.H.

### METHOD OF CALIBRATION

AS GENERAL RECOMMENDED BY JAPAN INDUSTRIAL STANDARD ( JIS ) IN PROCEDURE JIS B 7506 - 2007

### MASTER EQUIPMENTS USED

PRECISION GAUGE BLOCK SET  
MICRO THICKNESS FILMS

### SERIAL NO

359817  
TE - 78234

### DUE DATE

31 DECEMBER 2019  
31 DECEMBER 2019

### TRACEABILITY OF MASTER EQUIPMENTS

THE EQUIPMENT IS TRACEABLE TO ANSI / ASTM REPORT NO : B77 - 13001 - 2019

### RESULT OF CALIBRATION

AS PER GIVEN IN PAGES 2 OF THIS REPORT

### MEASUREMENT UNCERTAINTY

THE UNCERTAINTY CALCULATION IS BASED ON THE ISO GUIDE TO THE EXPRESSION OF UNCERTAINTY MEASUREMENT

THE UNCERTAINTIES ARE FOR A CONFIDENCE PROBABILITY OF NOT LESS THAN 95 %

THE ATTACHED MEASUREMENT DATA INDICATED ALL THE TEST PERFORMED AT TIME OF CALIBRATION AND HAS FOUND  
THE INSTRUMENT TO BE WITHIN SPECIFICATIONS UNLESS OTHERWISE INDICATED . THIS REPORT SHALL NOT BE REPRODUCED  
EXCEPT IN FULL , WITHOUT THE WRITTEN APPROVAL OF THE LABORATORY .



## ACCURATE TECHNOLOGY

NO. 11 , JALAN LEMBAH 3 , TAMAN DESA JAYA

81100 , JOHOR BAHRU , JOHOR .

TEL : 07- 353 2962

FAX : 07 - 351 9823



American National Standards Institute  
Accreditation Calibration  
ANSI Member : 264502  
ISO / IEC 17025

# CERTIFICATE OF CALIBRATION

CERTIFICATE NO. : AT 32142 - 19

INSTRUMENT : WET FILM THICKNESS GAUGE

DATE OF ISSUE : 21 SEPTEMBER 2019

SERIAL NO : N 920 368

PAGE : 2 OF 2

## CALIBRATION RESULTS

The values given correspond to the mean of the three measurements per point . The deviations of central length have been converted to the reference temperature of 20 ° C taking into the account to the coefficient of expansion . The value of deviations of the central length are compared to ISO 3650 - 1998 standard according to its grade .

Nominal Value	Deviation	Nominal Value	Deviation	Nominal Value	Deviation	Nominal Value	Deviation	Nominal Value	Deviation
( um )	( um )	( um )	( um )	( um )	( um )	( um )	( um )	( um )	( um )
25.0	+ 2.00	225.0	+ 2.00	550.0	- 1.00	1000.0	+ 2.00	2400.0	0.00
50.0	+ 3.00	250.0	- 2.00	600.0	0.00	1100.0	+ 3.00	2600.0	+ 2.00
75.0	0.00	275.0	- 1.00	650.0	- 2.00	1200.0	- 2.00	2800.0	- 1.00
100.0	- 2.00	300.0	- 1.00	700.0	- 1.00	1400.0	- 1.00	3000.0	- 2.00
125.0	+ 3.00	350.0	0.00	750.0	+ 2.00	1600.0	- 2.00		
150.0	- 2.00	400.0	+ 2.00	800.0	- 2.00	1800.0	- 1.00		
175.0	- 1.00	450.0	- 2.00	850.0	0.00	2000.0	+ 2.00		
200.0	+ 3.00	500.0	+ 2.00	900.0	+ 2.00	2200.0	- 1.00		

PERMISSIBLE VALUE	± 5.00 um	MEASUREMENT UNCERTAINTY	± 1.00 um
-------------------	-----------	-------------------------	-----------

CALIBRATED BY

CERTIFIED BY

PONY MAH

ELISE SO

THE ATTACHED MEASUREMENT DATA INDICATED ALL THE TEST PERFORMED AT TIME OF CALIBRATION AND HAS FOUND THE INSTRUMENT TO BE WITHIN SPECIFICATIONS UNLESS OTHERWISE INDICATED . THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL , WITHOUT THE WRITTEN APPROVAL OF THE LABORATORY .