



SMSB

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SAMM 082

CERTIFICATE OF CALIBRATION

Certificate No. : SM24168058
Issued By : Sendi Mahir Sdn Bhd

Date of Issue : 10 Sep 2024

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Customer : UA RUBBER SPECIALITY CHEMICAL SDN. BHD.
NO.10-12, JALAN INDUSTRI CHEROK TO' KUN 2,
TAMAN INDUSTRI CHEROK TO' KUN
13400 BUKIT METRTAJAM PENANG, MALAYSIA.

Instrument : Durometer Hardness Tester

Calibration Date : 09 Sep 2024

Manufacturer : TECLOCK

Recalibration Date : 09 Sep 2025

Model/Type : GS-709N

Specified By Customer

Serial No : 5477

Remark : The user should be aware that any numbers of factors may cause this instrument to drift out of calibration before the specified calibration interval has expired.

Capacity : 0 ~ 100 units

Resolution : 1 units

Calibration Environment Condition:

Condition Upon Receiving : Good Physical Condition

Temperature : 21.2 to 21.3 °C

Relative Humidity : 51 to 53 %rh

Condition Upon Returning : The instrument has been calibrated. The results are as follows.

Calibration Method : Internal Calibration Procedure(s) ICPF6

Calibration Venue : This Instrument has been calibrated at Sendi Mahir Sdn Bhd

Measurement Uncertainty : The reported expanded measurement uncertainty is stated as the standard measurement uncertainty multiplied by the coverage factor k such that the coverage probability corresponds to approximately 95% and have a coverage factor of k=2 unless stated otherwise.

Reference Standard(s) Used :

Reference Standard Name	Serial No	Certificate No	Due Date	Accreditation No	Traceability
GAUGE BLOCK SET '0' (IN)	D094	NMIM-1403-M-19	26 Mar 2025	SAMM 261	NMIM(MY)
PROFILE PROJECTOR	D181	SM24132220	29 Apr 2025	SAMM 082	NMIM(MY)
DUROMETER TESTER	W006B	SM24113340	19 Feb 2025	SAMM 082	NMIM(MY)

Calibrated By:

Mohd Alias

Approved Signatory:

L.H. Seah

This certificate is issued in accordance with the laboratory accreditation requirements of Skim Akreditasi Makmal Malaysia (SAMM) of Standards Malaysia which is a signatory to the ILAC MRA. The measurement results included in this document are traceable to Malaysia national measurement standards maintained by the National Metrology Institute of Malaysia (NMIM). NMIM is a signatory to the CIPM MRA. It provides traceability of measurement to the SI system of units and/or to units of measurement realised at the NMIM and other recognised national metrology institutes. The results of calibration performed by Sendi Mahir Sdn Bhd apply to the particular equipment at the time of its test. They do not indicate or imply that Sendi Mahir Sdn Bhd approves, recommends or endorses the manufacturers or suppliers or users of such equipment that Sendi Mahir Sdn Bhd in any way guarantees the equipment's performance after calibration. Test/calibrations marked 'Not SAMM Accredited' in this report/certificate are not included in the SAMM Accreditation Schedule of our laboratory. Opinions and interpretations expressed herein are outside the scope of SAMM accreditation. Copyright of this certificate is owned by the issuing laboratory and may not be reproduced other than in full except with the prior written approval of the Head of the issuing laboratory.

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Technical Information

Type : A
Spring Load (0 ~ 100 units) : 56.1 ~ 821.1 gf

Readability : 0.2 units
Manufacturer Specification : ± 1 units

Calibration Results :

Spring Force Measurement

Nominal Value (units)	Correction	
	Before Adjustment	After Adjustment
0	0.0	N/A
25	0.0	N/A
50	0.0	N/A
75	0.0	N/A
95	+ 0.2	N/A

Note 1: Instrument under test Measured Value = Nominal Value - Correction

*Indenter Travel Measurement

Indenter Travel (inch)	Indicator Reading (units)
0.00	0.0
0.01	10.0
0.02	20.0
0.03	30.0
0.04	40.0
0.05	50.0
0.06	60.0
0.07	70.0
0.08	80.0
0.09	90.0
0.10	100.0

Measurement Uncertainty : ± 1 units

*Indenter Measurement

Indenter Measurement	Specification	Measured Value	Uncertainty \pm
(mm)	A		
Diameter of Indenter	1.15 ~ 1.40	1.20	0.01 mm
Diameter of indenter surface	0.76 ~ 0.82	0.80	0.01 mm
Indenter Extension	2.46 ~ 2.54	2.50	0.01 mm
Frustrum cone angle (°)	34.75 ~ 35.25	34.90	0.02 °

***Remarks : Indenter Travel Measurement and Indenter Measurement is not SAMM accredited.**

Note 2: To derive True Value = User Instrument Reading + Correction.

Note 3: Interpolation = Reading in between 2 test point may be derive by interpolate and plot a straight line graph where Instrument Reading(x-axis) Vs. Correction (y-axis).

Note 4: Uncertainty = Parameter, associated with the result of measurement, that characterises the dispersion of the value that reasonably be attributed to the measurand.

Note 5: Correction can be ignore if smaller than user specification, unless otherwise user shall apply correction to derive true value.

Note 6 : If no adjustment done, refer to 'Correction before adjustment' If adjustment was done refer to 'Correction after adjustment' to derive the true value.

Note 7 : N/A - Not Available.