



# SMSB

**SENDI MAHIR SDN. BHD.** 199501003943 (333138-T)

NO. 6, 8, 10 & 12, JALAN KAPAR 27/89, MEGAH INDUSTRI PARK,  
SEKSYEN 27, 40400 SHAH ALAM, SELANGOR DARUL EHSAN, MALAYSIA.  
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SAMM 082

## CERTIFICATE OF CALIBRATION

Certificate No. : SM24164430

Date of Issue : 27 Aug 2024

Issued By : Sendi Mahir Sdn Bhd

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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** : 27 Aug 2024

**Manufacturer** : TECLOCK

**Recalibration Date Specified By Customer** : 27 Aug 2025

**Model/Type** : GS-719G

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.

**Serial No** : 44757

**Capacity** : 0 ~ 100 units

### Calibration Environment Condition:

**Resolution** : 1 units

**Temperature** : 22.3 to 22.6 °C

**Condition Upon Receiving** : Good Physical Condition

**Relative Humidity** : 49 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<br>( units ) | Correction        |                  |
|----------------------------|-------------------|------------------|
|                            | Before Adjustment | After Adjustment |
| 0                          | 0.0               | N/A              |
| 25                         | 0.0               | N/A              |
| 50                         | - 0.2             | N/A              |
| 75                         | 0.0               | N/A              |
| 95                         | 0.0               | N/A              |

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

#### *\*Indenter Travel Measurement*

| Indenter Travel<br>( inch ) | Indicator Reading<br>( 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<br>± |
|------------------------------|---------------|----------------|------------------|
| ( 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.