

Schedule

Issue date: 29 August 2018
Valid until: 08 February 2021



MS ISO/IEC 17025

NO: SAMM 546

(Issue 3, 29 August 2018 replacement of SAMM 546 dated 12 February 2018)

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LABORATORY LOCATION:
(PERMANENT LABORATORY)



SOUTHERN STAR TESTING LABORATORY SDN. BHD
NO. 6 JALAN PENAGA 4
KAWASAN PERINDUSTRIAN KOTA PUTRI
81750 MASAI, JOHOR
MALAYSIA

FIELD OF TESTING: MECHANICAL

This laboratory has demonstrated its technical competence to operate in accordance with MS ISO/IEC 17025:2005 (ISO/IEC 17025:2005).

This laboratory's fulfillment of the requirements of ISO/IEC 17025 means the laboratory meets both the technical competence requirements and management system requirements that are necessary for it to consistently deliver technically valid test results and calibrations. The management system requirements in ISO/IEC 17025 are written in language relevant to laboratory operations and operate generally in accordance with the principles of ISO 9001 (see Joint ISO-ILAC-IAF Communiqué dated April 2017).

SCOPE OF TESTING: MECHANICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Metals and Metal Products (Metallurgy)	Sample Preparation	ASTM E3-2011
	Average Grain Size Measurement	ASTM E112-2013 (Comparison Method)
	Microetching and Microstructure Examination	E407-07 (2015)
	Macroetching and Macrostructure Examination	ASTM E381-01 (2012) ASTM E340-15
	Inclusion Content	ASTM E45-13 (Method A)
	Carburization and Decarburization	ASTM F2328-14 (Microscopic Examination)
	Microindentation Vickers Hardness Test	ASTM E384-17
	Coating Thickness Determination by Microscopic Examination	ASTM B487-85 (2013)
Determining Volume Fraction by Systematic Manual Point Count	ASTM E562-2011	

Signatories:

1. Mohd Hanif bin Abdullah
2. Dr. Ng Theng Pin

NO: SAMM 546(Issue 3, 29 August 2018 replacement
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Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement		Standard Test Methods/ Equipment/Techniques
Metallic Materials (Aluminum & Zinc Based)	Elemental Analysis Positive Material Identification (Spectrometric Analysis Instrumentation Technique)	a. Aluminum Based Alloys	ASTM E1251: 17a
		b. Zinc Based Alloys	ASTM E1251: 17a
	Corrosion Test (Electrolysis Method) - Capacity/Consumption Rate - Potential Test	<ol style="list-style-type: none"> 1. NACE TM 0190: 2012 2. DNVGL RP B401 (june 2017) 3. DEP 37.81.20.31 GEN (Sept 2011) 4. ASTM D1141: 1998 (Reapproved 2013) 5. FMC M40108 Rev. L 6. FMC M40109 Rev. J 7. FMC M40150 Rev. C 8. FMC M40148 Rev. C 9. *GS 2.01 Rev. B 10. *NORSOSK M-503-edition 4, sept 2016 11. *GS EP COR 201 Rev. 7 (2012) 12. ISO 15589-2 Second Edition 2012-12-01 <p>* Standard adopted from DNV or NACE method.</p>	

Signatories:

1. **Saiful Effendy bin Ismail**
2. **Nursyafiqah binti Ramli**
3. **Nur Asmira binti Rosli**

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Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques	
Metals and Metal Products (Mechanical) (Base Metal)	Hardness Test - Rockwell Method	ASTM E18: 17e1	
	- Brinell Method	ASTM E10-17	
	Tensile Test a. Tensile Strength b. Yield Strength c. Elongation & Reduction Area	ASTM A370: 17	
	Impact Energy Absorption Test - Charpy Method	ASTM E23: 16b	
	Elemental Analysis Positive Material Identification (Spectrometric Analysis Instrumentation Technique)	a. Carbon/ Low Alloy Steel	ASTM E415: 17
		b. Stainless Steel	ASTM E1086: 14
	Elemental Analysis Positive Material Identification (X-Ray Fluorescence Technique)	ASTM A751-14a ASTM E1476-04 (R2014)	
Salt Spray (Fog) Test	ASTM B117-16		
Fasteners	Proof Load Test	ASTM F606/F606M-16	

Scan this QR Code or visit www.ism.gov.my/cab-direktories for the current scope of accreditation**Signatories:**

1. **Wan Hafizul bin Wan Hamat**
2. **Eddy Nor Ezwan bin Mohd Hatta**
3. **Shazana binti Zulkifle**

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SCOPE OF TESTING: MECHANICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Metals and Metal Products (Mechanical – Welds)	Break Test (Filled Weld)	AWS B4.0-2016
	Bend Test	ASTM E190-14 ASTM E290-14
	Transverse Weld Tensile	BS EN ISO 4136-2012

Signatories:

1. **Dr. Ng Theng Pin**
2. **Wan Hafizul bin Wan Hamat**
3. **Eddy Nor Ezwan bin Mohd Hatta**
4. **Shazana binti Zulkifle**