

Schedule

Issue date: 06 April 2025
Valid Until: -



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LABORATORY LOCATION/ CENTRAL OFFICE:	Southern Star Testing Laboratory Sdn Bhd No 6, Jalan Penaga 4, Kawasan Perindustrian Kota Putri 81750 Masai, Johor , 81750, JOHOR MALAYSIA
	
ACCREDITED SINCE :	06 APRIL 2025
FIELD(S) OF TESTING:	MECHANICAL

This laboratory has demonstrated its technical competence to operate in accordance with MS ISO/IEC 17025:2017 (ISO/IEC 17025:2017).

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).

CENTRAL LOCATION:	Southern Star Testing Laboratory Sdn Bhd No 6, Jalan Penaga 4, Kawasan Perindustrian Kota Putri 81750 Masai, Johor , 81750, Johor
FIELD(S) OF TESTING :	MECHANICAL,

SCOPE OF TESTING : MECHANICAL

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Metal & Metal Products Metallurgy	Average Grain Size Measuremen	ASTM E112-2013 (Comparison Method)
	Microetching and Microstructure Examination	E407-23
	Macroetching and Macrostructure Examination	ASTM E381-22 ASTM E340-23
	Inclusion Content	ASTM E45-18a (Method A)
	Carburization and Decarburization	ASTM F2328-17
	Microindentation Vickers Hardness Test	ASTM E384-17
	Coating Thickness Determination by Microscopic Examination	ASTM B487-20

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Determining Volume Fraction by Systematic Manual Point Count	ASTM E562-2019
Metal & Metal Products (mechanical) (base Metal)	Hardness Test - Rockwell Method	ASTM E18: 22
	- Brinell Method	ASTM E10-18
	Tensile Test a. Tensile Strength b. Yield Strength c. Elongation & Reduction Area	ASTM A370: 23
	Impact Energy Absorption Test - Charpy Method	ASTM E23: 23a
	Elemental Analysis Positive Material Identification (Spectrometric Analysis Instrumentation Technique)	ASTM E415: 21
	a. Carbon/ Low Alloy Steel	
	b. Stainless Steel	ASTM E1086: 22
	Elemental Analysis Positive Material Identification (X-Ray Fluorescence Technique)	ASTM A751-21 ASTM E1476-04 (R2014)
Metal & Metal Products (mechanical - " Welds)	Salt Spray (Fog) Test	ASTM B117-19
	Break Test (Filled Weld)	AWS B4.0-2016
	Bend Test	ASTM E190-21
	Transverse Weld Tensile	ASTM E290-22 BS EN ISO 4136-2012
Metallic Materials Aluminum & Zinc Based	Elemental Analysis Positive Material Identification (Spectrometric Analysis Instrumentation Technique)	ASTM E1251: 17a
	a. Aluminum Based Alloys b. Zinc Based Alloys	ASTM E1251: 17a

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Corrosion Test (Electrolysis Method) - Capacity/Consumption Rate - Potential Test	1. NACE TM 0190: 2017 2. DNVGL RP B401 (2021) 3. DEP 37.81.20.31 GEN (Sept 2011) 4. ASTM D1141: 1998 (Reapproved 2013) 5. FMC M40108 Rev. M 6. FMC M40109 Rev. K 7. FMC M40150 Rev. F 8. FMC M40148 Rev. E 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 * Standard adopted from DNV or NACE method.
Fasteners	Proof Load Test	ASTM F606/F606M-21

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