

Schedule

Issue date: 01 December 2023
Valid Until: 06 December 2028



NO: SAMM 858

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LABORATORY LOCATION/ CENTRAL OFFICE: 	Material Testing Lab, Quasi-S Technology Sdn. Bhd. Block Stroma B3-1, UKM-MTDC Smart Technology Center 43600 Bangi, Selangor , 43600, SELANGOR MALAYSIA
ACCREDITED SINCE :	12 MARCH 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:	Material Testing Lab, Quasi-S Technology Sdn. Bhd. Block Stroma B3-1, UKM-MTDC Smart Technology Center 43600 Bangi, Selangor , 43600, Selangor
FIELD(S) OF TESTING :	MECHANICAL,

SCOPE OF TESTING : MECHANICAL

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Metallic Materials	Metallographic Test i) Sample preparation ii) Microstructure examination (qualitative observation and recording) - Phase Identification (Pearlite, Ferrite and Martensite, etc) - Pitting - Inclusion - Weldment Structure (ferrous only) - Cast Iron Structure / Grey Cast Iron (Flake) Macroscopic Examination -Method for Macroetch Testing Steel Bars, Billets, Blooms, and Forgings -Methods of macro etching metals and alloys to reveal their macrostructure	ASTM E3-11 (2017) ASTM E407-07 (2015) e1 ASTM E1351-01 (2020) ASTM E381 –2022 ASTM E340-2023
	Mechanical Test i) Micro Vickers Hardness Range 1-1000 gf	ASTM E384-22
	Charpy Impact Test (V-Notch and U-Notch) Range: 0-500J Sub-zero temperature (-30 °C) to elevated temperature (+30 °C)	ASTM A370 -22 ASTM E23-23a
	Tensile test at ambient temperature Range: 200 kN (MAX) Properties measured: 1. Yield Strength 2. Tensile Strength 3. Elongation	ASTM A370 -22 ASTM E8/E8M-22

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Tensile Test	ASME Section IX:2023 (Section QW 150)
	Range: 0 kN to 200 kN at Ambient Temperature	ASME Section IX:2023 (Section QW 160)
	Bend Test	ASME Section IX:2023 (Section QW 170)
	Charpy Impact Test	ASME Section IX:2023 (Section QW 184)
	Range: 0 J to 500 J Temperature: -40 -•°C to 19 -•°C	
	Macro Examination	
	Test Range: Up to 20x magnification	

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