

SINGAPORE LABORATORY
ACCREDITATION SCHEME



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Certificate of Accreditation

This certifies that

Mirai Calibration Laboratory Pte Ltd
53 Tuas South Avenue 1
Tuas Cove Industrial Centre
Singapore 637606

is accredited by the Singapore Accreditation Council to

ISO / IEC 17025 : 2017

for specific scope within the field of

Mechanical Testing

as detailed in the attached schedule.

Chairman

This Certificate is awarded subject to the organisation's compliance with the stated criteria and terms and conditions laid down by the Singapore Accreditation Council.

This Certificate may not be reproduced except with the written permission of the Chairman.

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OUR PROFILE

- EXPANDED WITH WIDE RANGE OF TESTING IN MECHANICAL, CHEMICAL, METALLURGICAL AND CORROSION.
- ISO/IEC 17025:2017, ISO 9001:2008, ISO 14001:2015 CERTIFIED
- MANAGED BY AN EXCELLENT COMPETENT TECHNICAL TEAM

OUR VISION:

"OUR VISION IS TO BE A GLOBAL LEADER AND AN INTERNATIONALLY BENCH MARKED LABORATORY IN RESEARCH AND DEVELOPMENT, SPECIALIZED IN ALL TYPES OF TESTING WHICH ADD VALUE TO OUR CUSTOMERS"

MECHANICAL TESTING FACILITIES:

Bar, Plate, Tubes and Pipes- Ferrous and Non Ferrous-

- TENSILE STRENGTH, YIELD STRENGTH, 0.2% PROOF STRESS, % ELONGATION AND % REDUCTION AREA
- ROCKWELL HARDNESS TEST
- BRINELL HARDNESS TEST
- VICKERS HARDNESS TEST
- BEND TEST
- IMPACT TEST (CHARPY)

TMT BARS

- TENSILE STRENGTH, 0.2% PROOF STRESS, % ELONGATION
- BEND TEST
- RE-BEND TEST

WELDED MATERIAL

- TENSILE STRENGTH
- FACE BEND, ROOT BEND, SIDE BEND
- FRACTURE TEST

TUBES AND PIPES –FERROUS AND NON FERROUS

- FLATTENING TEST
- DRIFT EXPANSION
- CRUSH TEST

FASTENERS –FERROUS AND NON FERROUS

- PROOF LOAD
- TENSILE STRENGTH

MECHANICAL TESTING FACILITIES:

UNIVERSAL TESTING MACHINE



ROCKWELL HARDNESS TEST



CHEMICAL TESTING FACILITIES: OPTICAL EMISSION SPECTROMETER

SPECTROMETER(OES)



- CARBON STEEL & ALLOY STEELS
- STAINLESS STEELS
- ALUMINIUM AND ALUMINIUM ALLOYS
- NICKEL AND NICKEL ALLOYS
- COPPER AND COPPER ALLOYS

METALLURGICAL TESTING FACILITIES:

Ferrous and Non Ferrous

- MICROSTRUCTURE EXAMINATION
- MACRO EXAMINATION
- INCLUSION RATING
- GRAIN SIZE
- DECARBURIZATION DEPTH

GREY CAST IRON AND SG IRON

- MICRO EXAMINATION
- GRAPHITE FLAKES, NODULAR TYPE, SIZE, DISTRIBUTION AND MATRIX ANALYSIS

CASE HARDENED & NITRIDED STEELS

- CASE DEPTH
- MICRO EXAMINATION

METALLIC AND OXIDE COATING METALS

- METAL AND OXIDE COATING THICKNESS

CORROSION TEST

FAILURE ANALYSIS - FERROUS AND NON FERROUS

METALLURGICAL TESTING FACILITIES:

OPTICAL MICROSCOPE



VICKERS HARDNESS TESTING MACHINE





MIRAI CALIBRATION LABORATORY

OUR VISION

Empowering individuals to reach their full potential through our innovative solutions.

OUR MISSION

We are committed to providing high-quality products and services that inspire growth, foster creativity, and drive success.

ABOUT US

We are a trusted and experienced company dedicated to excellence. Our creative professionals are innovative and driven to surpass client expectations. We build long-term relationships, partnering in your success. From concept to execution, we deliver comprehensive solutions that elevate your business.

Mechanical testing services:

- 1) Tensile Strength, Yield strength, % elongation
- 2) Rockwell Hardness Test
- 3) Brinell Hardness Test
- 4) Vickers Hardness Test
- 5) Bend Test
- 6) Impact Test (Charpy)
- 7) Fracture Test
- 8) OES PMI – Chemical Testing
- 9) Metallurgical Testing Services
 - Microstructure Examination
 - Macro Examination
 - Grain Size Analysis
- 10) Corrosion Testing
- 11) Load cell calibration .

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