



MECHANICAL AND AUTOMOTIVE

Testing

High Knowledge and Experience on Mechanical Products and Automotive Industry



BEST PARTNER FOR INNOVATION

The Mechanical and Automotive Section at SIRIM QAS International provides comprehensive testing services to the authorities, institutions, traders and other laboratories. SIRIM QAS International has an in-depth experience in this field and is fully equipped with modern equipment to develop integrated solutions and produce a reliable result to meet your requirements.

We are strongly supported by a dedicated and enthusiastic staff, highly qualified and professional technicians and engineers who have a wide range of in-depth knowledge and experience to get the job done. Accreditations and recognitions received signify with our commitment to our valued customers.

The Mechanical and Automotive Section testing laboratories services are supported by the following:

- Mechanical and Industrial Product Laboratory
- Automotive Vehicle Components Laboratory
- Helmet and Personal Protective Equipment Laboratory
- Flow and Gas Appliances Laboratory
- Packaging, UN and ISTA Laboratory

Why Is Testing So Important?

- Effective tools in conformity assessment procedures
- Determine product characteristics
- Verification or validation of performance
- To meet the requirement of standards
- Be more objective and clear direction

+ The Benefits

- Provide an independent assurance of product compliance with standard and requirements, thus facilitates customers' acceptance.
- Provide an independent assurance that test is done in accordance with the stated

specification, test method and correct environmental condition.

- Provide an independent assurance on product safety and quality in line with safety requirements as well as to safeguard the consumers' interest.
- As a part of product certification scheme requirements, the test report facilitates customer's application to the scheme.

SCOPE OF TESTING SERVICES

Mechanical and Industrial Product Laboratory

- Ironmongery for door accessories
- Burglary safe
- IP test (dust)
- Ladders
- Lighting column
- Reliability testing for electronics and electrical products
- Cable ladder and cable trays

Helmet and Personal Protective Equipment Laboratory

- Motorcyclist safety helmet
- Helmets for pedal cyclists, skateboarders, roller-skaters, non-motorised scooters
- Visors for motorcyclist
- Safety, sports, and occupational footwear
- Industrial safety helmet
- PPE equipment

Flow and Gas Appliances Laboratory

- LPG regulator
- Gas hoses
- Gas cooker
- LPG valve
- Water meter
- Butterfly, gate, shut-off, and check valves
- Pillar and bib taps
- Gas valve
- Laboratory burner or portable burner
- Commercial and industrial cookers
- Stopcocks
- Lighter
- Premix Bitumen (new service)
- WELPS/WELS for sanitary

Packaging, UN and ISTA Laboratory

- UN marking test
- ISTA test
- Transportation test
- Drums test
- Jerricans test
- Sharp container test
- Boxes test
- Bag/sacks test
- Intermediate bulk container test
- Pallet test
- Packaging performance

Automotive Vehicle Components Laboratory

- Motorcycle parts and components
- Vehicle accessories
- Automotive lighting, signalling, and reflectors
- Electric motorcycles
- E-bicycles
- Road vehicles accessories
- Brake pad and brake shoe lining

Reliability Testing

- Electrical and electronic parts and components
- Environmental simulation (mechanical and climatic)

TESTING FACILITIES

Climatic

- Cold temperature
- Dry heat
- Cyclic heat with humidity
- Steady state heat with humidity
- Thermal shocks
- Solar radiation
- Dust and IP test
- Pressure test
- Thermal-vibration
- Ozone
- Altitude test

Mechanical & Dynamic

- Vibration
- Shock
- Drop/impact
- Endurance
- Penetration
- Compression
- Mechanical reliability

Other facilities

- Photometry lab
- Vehicle braking facilities
- Helmet and visor
- Safety and occupational footwear
- Gas appliances
- Mechanical impact test (IK code)
- Thread test
- Edge Crush Test (ECT)

WHY SIRIM QAS?

SIRIM QAS is an internationally recognised conformity assessment body with decades of experience in providing certification, inspection and testing services to both local and international customers.

We also gain accreditations from leading accreditation bodies such as the Department of Standards Malaysia (STANDARDS MALAYSIA) and under the National Laboratory Accreditation Scheme (SAMM) based on the requirements of ISO/IEC 17025. These accreditations not only demonstrate the competence of our

personnel and the credibility of our certification processes but also ensure the international recognition of our certificates.

In addition, the Packaging Laboratory still maintain the Certified Laboratory status by the world-renowned International Safe Transit Association(ISTA), based in the United States.

Application Process:

- 1 Enquiry/Application by Customer
- 2 Issue of Quotation
- 3 Submission of Test Items
- 4 Product Testing
- 5 Issuance of Test Report



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