

MECHANICAL AUTOMOTIVE

TESTING SERVICES

Delivering Reliable Testing Services for Product Quality and Safety



You can always count on us for reliable and trusted product testing for your mechanical and automotive needs. With an extensive scope of testing to ensure your products comply and meet the standards and requirements, our highly experienced and professional engineers and technicians are dedicated to providing solutions with effective results for your business.

An Essential Step Bringing New Product to the Market – Mechanical and Automotive Testing Services

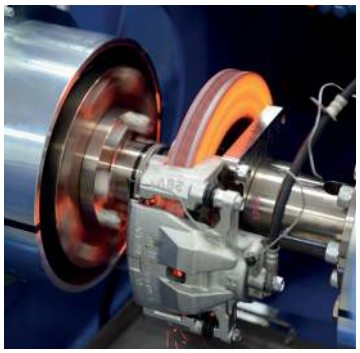


Unique businesses like yours deserve high-quality product testing in place to identify potential product safety issues. Obtaining product test report and certification for your products can make a significant difference to the competitive advantage of your company.

We are committed to helping you in every situation that requires our assistance in a wide range of services for your peace of mind.

Scope of Testing Services

Automotive Vehicle Components Laboratory



- Automotive Parts and Components
- Vehicle Accessories Components
- Automotive Lighting
- Automotive Reflector Materials
- Lighting of Obstacles (Aircraft)
- Reflective Materials
- Road Vehicle Accessories (Road Pavement Marker; Flexible Pole, etc)
- Road Safety Traffic signs (Emergency Triangle, Signage; etc)
- Road Safety Lights (Beacon, Flashing Light, Stroboscope; LED Signage; etc)
- Side and Rear Marking for Commercial Vehicles
- Electric Motorcycle
- Electric Bicycle
- Brake Pad and Shoes Assemblies
- Pneumatic Tyre (New and Retreaded)
- Laminated Safety Glass and Tempered Safety Glass
- Natural Gas Vehicle (NGV) Regulator Kits
- Fuel Consumption, Power and Emission

Helmet and Personal Protective Equipment (PPE) Laboratory



Hearing Protection

- Ear-Muff
- Ear-Plug

Head Protection

- Motorcycle Helmet
- Bicycle Helmet
- Skateboard Helmet
- Roller Skating Helmet
- Non-Motorised Scooter Helmet
- Industrial Safety Helmet
- Hard Hat
- Bump Cap

Respiratory Protection

- Respirator Half Mask

Eye Protection

- Visor Motorcycle Helmet
- Safety Spectacle
- Goggle
- Face Shield

Foot Protection

- Safety Footwear
- Occupational Footwear
- Sport Footwear

Hand Protection

- Gloves

Fall Protection

- Body Harness
- Lanyard
- Energy Absorber
- Connectors (Hook, Carabiner)
- Waist Belt
- Sit Harness

Enforcement Protection

- Riot Helmet
- Riot Face Shield
- Riot Protective Shield
- Combat and Tactical Boot

Flow and Gas Appliances Laboratory



Gas Products

- Domestic Gas Cooking Appliances
- LPG Regulator
- LPG Cylinder
- LPG Valve
- Composite Cylinder
- Commercial LPG Cooker
- Gas Hoses
- Portable Burner
- Disposable Gas Lighter

Water Products

- Water Meter
- Fittings
- Stop Cocks
- Valves
- Pillar & Bib Taps
- Sanitary Ware
- Sanitary Tapware (WEPLS/WELS)
- Pump and Motor
- Electric Actuator for Valves

Packaging, UN and ISTA Laboratory



- Transport Simulation
- Packaging for Dangerous Goods (UN)
- ISTA Package Testing
- Drums
- Jerricans
- Intermediate Bulk Container (IBC)
- Bags/Sacks
- Flexible Intermediate Bulk Container (FIBC)
- Boxes (Paper, Wood, Metal, Aluminium, Plastic)
- Sharp Container
- Pallet
- Mobile Waste Container
- Transportation for Lithium Battery
- Furniture Package

Mechanical and Industrial Product Laboratory



- Ironmongeries
- Portable Aluminium Ladders
- Burglary Safe
- Steel Lighting Column
- Cable Ladder
- Cable Trays
- Electrical and Electronic Products
- Electrical Enclosure
- Reliability for Semiconductor Package
- Reliability for Lithium Battery
- Fiber Optics Cables
- Aluminium Door Frame
- Traffic Lights
- Reliability for Traffic Controller
- Premix Bitumen

Testing Facilities

Environmental and Climatic

- Environmental Simulation Chamber
- Thermal Cyclic Chamber
- Temperature and Humidity Chamber
- Temperature Chamber
- Thermal Shock Chamber
- Cold Chamber
- Hot Chamber
- Furnace Chamber
- Walk In Temperature and Humidity Chamber
- Altitude Chamber
- Ingress Protection Test (IP)
- Dust Protection Chamber
- Water Protection Chamber
- Water Tank with Control Temperature
- Water Bath Equipment
- Water Spray (Rain Spray) Chamber
- Salt Spray Chamber
- Copper Accelerated Salt Spray Chamber
- Cyclic Corrosion Chamber
- Fogging Test Equipment

Mechanical and Dynamic

- Vibration Machine
- Mechanical Shock and Bump Machine
- Combine Vibration Machine
- Inertia Brake Dynometer
- Universal Tensile Machine
- Impact Test Equipment
- Impact Absorption Equipment
- Incline Impact Equipment
- Mechanical Impact (IK Code)
- Penetration Test Equipment
- Drop Test Equipments
- Compression Machine
- Edge Crush Test Equipment
- Endurance Tester
- Cyclic Tester
- Flowrate Test Equipment
- Cyclic Test in Cold Chamber
- High Pressure Tester
- Low Pressure Tester
- Burst Tester
- Flexing tester

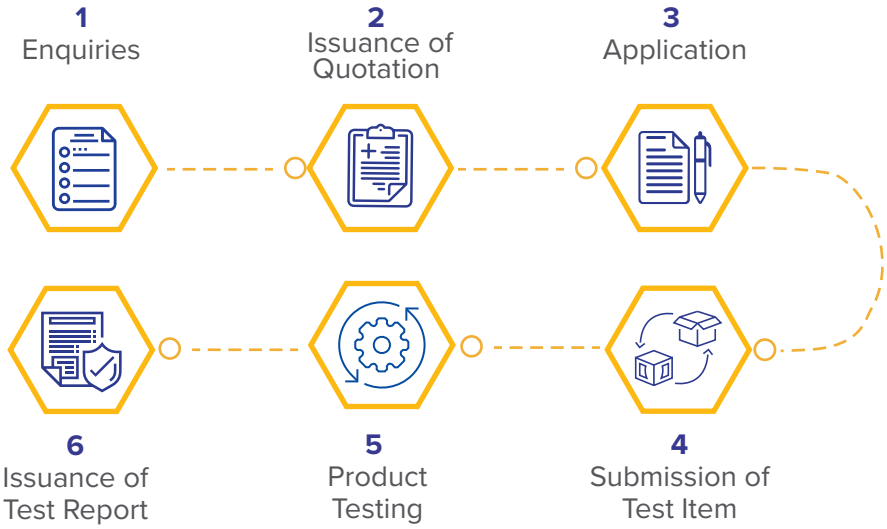
Optical, Materials and Measurement

- Photometry Test Equipment
- Light Transmittance Test Equipment
- Optical Quality Test Equipment
- Recognition Signal Light Test Equipment
- Mist Retardant/ Anti Fog Test Equipment
- Abrasion Test Equipment
- Hot Resistant Equipment
- Electric Insulation Equipment
- Electric Resistant Equipment
- Optical Dynoscope
- Compressibility
- Water Flowmeters
- Gas Flowmeters
- Digital Microscope
- Surface Roughness Measurement
- Data Acquisition Measurement
- Datalogger
- Sound Level Meter
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The Importance of Testing

- Increase credibility and confidence of product compliance accordance to standards and specifications.
- Enhance trust in the quality, performance and delivery of your products and services.
- Assist in conformity assessment for product certification scheme.

Testing Service Process



SIRIM QAS - Your One-stop Product Reliability Testing Solution



SIRIM QAS is an accredited and recognised Compliance Assessment Body with extensive experience providing testing, inspection, certification services to both local and international customers. Our product testing follows a strictly regulated procedure to ensure that its performance, durability, and reliability is proven to meet mandatory safety requirements.

We have also received accreditations from reputable leading accreditation bodies, such as the Department of Standards Malaysia (STANDARDS MALAYSIA) and the National Laboratory Accreditation Scheme (SAMM), focused on MS ISO/IEC 17025 criteria.

Such accreditations not only reflect the expertise of our employees and integrity, but also guarantee our credentials are recognised internationally.

SIRIM QAS laboratory has been certified by the world-renowned International Safe Transit Association (ISTA), headquartered in the United States, and is still retained by the Packaging Laboratory.

For more information, contact us at:

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