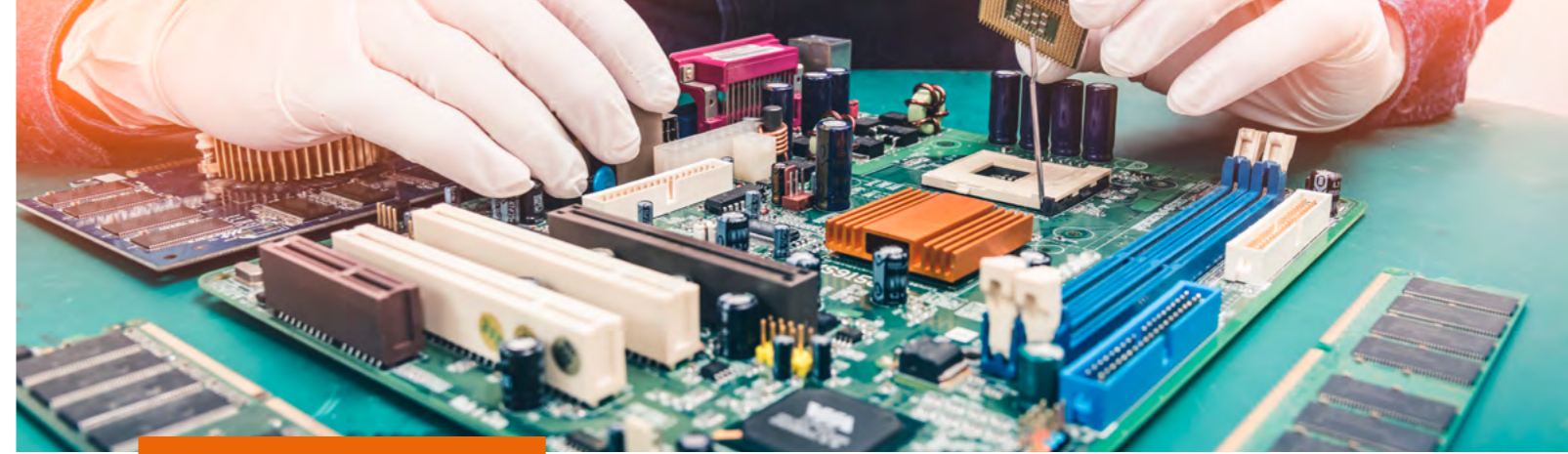


Electrical and electronic systems:
R&D and supply chain players, are
your products functional?

Electrical and electronic systems: SGS testing laboratories provide multidisciplinary and complete range of services



- Electric measurement
- Environmental testing
- Mechanics

The components and subsystems of vehicles are now full of electronic systems and software. For each function, OEMs must guarantee their performance in all environmental conditions that can happen in real life, especially the worst ones.

You are

- Electronic or electric component manufacturer?
- Manufacturer of complete E&E equipments or systems?
- Power, energy, battery provider?

WE CHARACTERIZE THE ENDURANCE PROPERTIES OF COMPONENTS ACCORDING TO OEM SPECIFICATIONS.

It deals with many possible combination of:

- Vibration and shock
- Climatic ageing
- Environmental simulation
- Life test durability

"We continuously develop our lab capacities in accordance with market evolutions like electric or autonomous cars.

Today, 4.000 m2 of labs are dedicated to E&E testing. And there is more to come!"

SYLVIE TEISSANDIER
KEY ACCOUNT AND INNOVATION MANAGER

OUR QUALITY APPROACH:

- 1 Internal audit: more than 30 audits per year
- 2 Cross-tests with external organisms
- 3 Audit and cross testing with French and international OEMs
- 4 ISO 17025 and NADCAP accreditations

OUR FIELDS SERVICES:

MATERIAL CHARACTERISTICS

- Mechanical characterization
- Thermal analysis
- Metallographic analysis
- Chemical analysis

EMISSIONS AND REGULATION

- Odor and VOC Emissions
- ROHS
- ICP
- REACH

TIGHTNESS CONTROL

- Dust
- Fluids
- Splash water
- Thermal Shock
- Air/immersion shocks

CORROSION TESTING

- Continuous Salt spray
- Corrosion cycling
- Gaz corrosion
- Condensation

RESISTANCE TO FLUIDS

- Drop
- Catapasm
- Immersion

MECHANICAL RESISTANCE

- Holding of inserts
- Cables behaviour
- Connector resistance

VIBRATIONS & SHOCKS

- With or without table
- With climatic combination
- Power & monitoring

CLIMATIC AGEING

- Up to 83 m³
- Heat/ Cold/ Humidity
- High speed temperature change
- Thermal Shocks
- Power up dissipation

FUNCTIONAL MEASUREMENT

- Electrical activations
- Monitoring & acquisition of power parameter: U, intensity, heating
- Failure analysis

ELECTRICAL AND ELECTRONICAL MEASUREMENTS

- Insulation resistance
- Resistivity
- Contact resistance
- Temperature heating



HALL DEDICATED TO VIBRATION AND ENDURANCE EE TESTING

As part of major strategic issues, we offer personalized monitoring of your projects including live videoconferences from the laboratory, technical follow-up calls, and daily or weekly reporting.

Let us know what you need, and we'll build this tailor-made offer together.

CONTACT US

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WHEN YOU NEED TO BE SURE

