



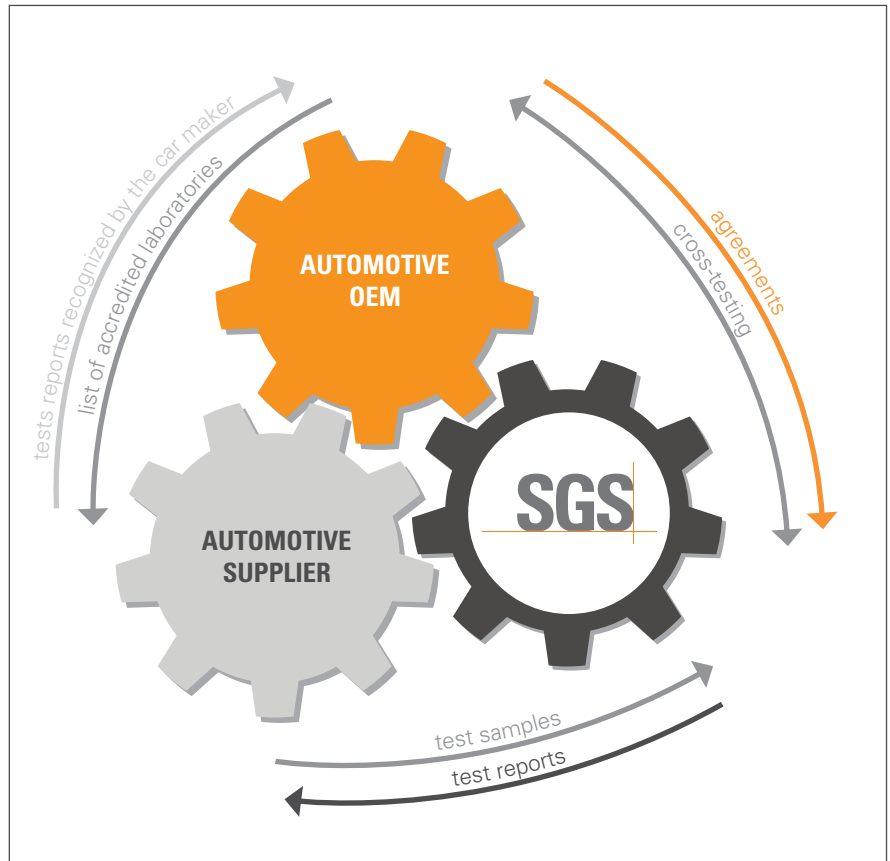
TRUSTED FOR REAL LIFE

SAFETY, QUALITY AND SUSTAINABILITY SOLUTIONS FOR
THE **AUTOMOTIVE** INDUSTRY

SGS SERCOVAM, PARTNER OF THE AUTOMOTIVE OEMS SUPPLIERS

SGS SERCOVAM is a long-time partner of international automakers technical centres and R&D services.

Their laboratories are regularly assessed by their representatives, in order to guarantee to the automotive industry suppliers the same level of quality as the tests done in the labs of the OEM. Cross-testing between OEMs and SGS assure a good match between them.



MATERIAL TESTING, APPEARANCE TESTING

UV photo-ageing



Exterior and interior parts, Weather-ometer, Fade-ometer and Sunshine Weather-ometer, SoSi: Over 30 devices: CI3000, CI35, Q-UV, QSUN, XENOTEST, SUNTEST, UV-CON, Arc Carbone CXW and CDMC, Climatron, XR-35...

All OEMs and international testing methods.

Resistance & appearance testing



Scratching, scrubbing, abrasion, Xb, staining, shot-blasting, taber, martindale, spraying with all kinds of fluids, car-wash testing, impact testing (dupont impact tester), thickness measurement (microscopy), adhesion...

Sensorial analysis & emissions



Olfactory: Evaluation of fragrant intensity and identification, on materials or parts.

Touch test: Qualitative and quantitative measurement of touch.

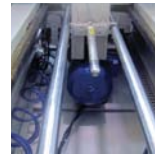
VOC, Formaldehyde, Fogging, etc.

Plastics analysis



IRTF, DSC, CPG, SM, MFI, Density, Ash rate, Vicat...

Mechanical testing



Static and dynamic properties of materials, from - 40 to + 400 ° C, tensile, creep, compression, flexural, fatigue , Insert pull-out resistance, flat and right angle peeling ; Shore & Persoz hardness, Charpy et Izod impact; Drop tower for instrumented impact (puncture impact), ozone ageing for rubber.

Fire testing



Horizontal and vertical combustibility, FMVSS 302, UL94.

ENVIRONMENTAL TESTING

Corrosion testing



Salt spray, corrosion RENAULT ECC1, PSA TCAC, Alternate corrosion, Cass test, Ass test, 3C corrosion, Swaat test, 4 gaz corrosion (H2S/SO2/NO2/Cl2), Kesternich, acid vapours, condensation/immersion, Herel test, Dr Diehl, Volvo ACT...

Climatic ageing



Hot / Cold / Humid chambers up to 84m3.

Thermal shock, rapid temperature variation (up to 15°C/min), thermal shock by immersion.

Exposure to sunlight (without UV)



6, 22 & 84 m3 chambers for most automakers tests methods.

Chemical testing



Immersion, soaking with all kind of fluids (volatiles, fuel, oil...).

FUNCTIONAL TESTING

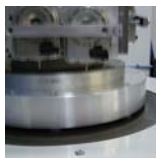
IP testing & tightness



Resistance to solid: IP1X to IP6X, dust (talc, Arizona, Portland cement, etc.).

Resistance & tightness to liquids, from IPX1 to IPX9K.

Vibration & shocks testing



7 shakers from 10 to 60 kN, with climatic chambers and table (VRT, -40 to +150°C): Sinus, random, shock up to 2000g...

Test benches design / Endurance



SGS can provide the services of its engineering department to design new test benches to meet any specifications (for in house use).

Pressure testing



Endurance under combined pressure cycles (liquid or air) and thermal, cycles, (-40 to +180°C) fluid circulation, coupling with vibration, etc.

Electrical & electronic testing



Electrical measurements (insulation resistance, dielectric strength, resistivity, contact resistance).

Functional characterization: micro-cut, performance tests (power consumption, activation profile of parts), ageing combining environmental and power (power up to 500V, 510 A, monitoring current / voltage / temperature).

Splash Water test (with or without Arizona dust and / or NaCl, parts in operation during cycling).

Cleanliness of components



Extraction of contaminants of parts according to ISO 16232 specifications: extraction made by agitation (according to ISO 16232-2) and extraction by rinsing (according to ISO 16232-3), by ultrasonic technic according to ISO 16232-4. Analysis performed with gravimetric characterization (ISO 16232-6) and with particle sizing and counting by microscopic analysis (ISO 16232-7).



ACCREDITED TEST LABORATORY
COFRAC (ISO 17025)
ACCREDITATIONS
N°1-1526 & 1-2014



LABORATORY
AGREED BY MANY
AUTOMAKERS



AGREED FOR
FRENCH CORPORATE
TAX CREDIT
FOR RESEARCH
EXPENSES (CRÉDIT
IMPÔT RECHERCHE)



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WHEN YOU NEED TO BE SURE

