



Materials: R&D and industrial players, how about validating your products?



# Materials: SGS testing laboratories provide multidisciplinary and complete range of services

- Your are:
- Compounder?
  - Manufacturer of decor and trims?
  - User of formulated products (paint, varnish)?
  - R&D center?
  - Surface treatment applicator
  - Research and innovation center?

## WE CHARACTERIZE AND VALIDATE

All type of materials (fluids, plastics, composites, polymers, elastomers, rubbers, foams, textiles, metals...)

And performance tests regarding:

- Material resistance
- Air quality and emissions
- Resistance to aging
- Resistance to wear

*“Our Strategy: perform tests according to international standards (ISO, ASTM, EN...) but also according to OEM specifications from automotive, rail, aeronautic, ...”*

**SYLVIE TEISSANDIER**  
KEY ACCOUNT & 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

DETERMINATION  
OF ELONGATION/BREAK

## Material Characterization

- Resilience
- Ageing performance
- Perceived quality and harmony

## MECHANICAL TESTING

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- Tensile
- Compression
- Flexural

### THERMAL ANALYSIS

- TMA / DMA / DSC

### MECHANICAL RESISTANCE

- Charpy and Izod Impact
- Drop Tower for instrumented impact

### CHEMICAL ANALYSIS

- Viscosity
- Permeability

### METALLURGICAL ANALYSIS

- Pitting
- Brazing
- Weld bead

### FLUID RESISTANCE

- Drop
- Catapasm
- Immersion

Our material tests concern materials, coatings, decorations and semi-finished parts.

## EMISSIONS AND REGULATION

### ODOR CHARACTERIZATION

- Intensity of smell
- Fragrant identification

### EMISSIONS ANALYSIS

- VOC (Volatil Organic Compounds)
- Formaldehyde

### INTERIOR EMISSIONS

- Micro-chambers
- 1m<sup>3</sup> chambers
- Big bag

### CONDENSATE ANALYSIS

- Fogging
- Phtalates

### FIRE TEST

- Horizontal combustibility
- Vertical combustibility
- Glow wire

### SPECIFIC ANALYSIS

- REACH
- ROHS
- ICP
- Bisphenol

## AGEING AND DURABILITY

### UV PHOTOAGEING

- Wheatherometer, Fade-ometer, Sunshine (carbon arc)
- With aspersion cycle
- Interior or exterior simulation
- CI3000, WOM, QUV, QSUN

### CLIMATIC AGING

- Equipment range from 1 up to 83m<sup>3</sup>
- Heat/Cold/Humidity cycle
- Standard or fast temperature change
- Thermal shock

### COATING RESISTANCE

- Adhesion

### APPEARANCE TESTING

- Scratching
- Rubbing
- Wear
- Impact

### APPEARANCE AND HARMONY

- Color
- Gloss
- Contrast

### CORROSION TEST

- Neutral salt spray, cyclic corrosion
- Filiform corrosion
- Gas Corrosion

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**

**SGS**