

## About us

RST is an independent, medium-sized company and offers highly specialised materials testing and engineering services for all industries. RST supports developers and manufacturers from product development and market launch to quality control during production and maintenance.



TESTING THE WORLD FOR TOMORROW



## Exactly, what you need

### Purchasing

Our optimised processes guarantee you fast and smooth processing of your order without long wait times. Our wealth of experience is based on countless test orders successfully completed for a wide range of customers. Our in-house test frame production as well as our in-house calibration laboratory guarantee the highest flexibility and cost efficiency.

### Project management

We are always at your side – even in the event of unexpected changes to the planned test sequence, necessary rework and adjustments to the test specimen, and tight deadlines. You can rely on responsive communication with our testers and engineers. You are welcome to personally observe your tests being completed on site or via video transmission.

### Quality management

Our competent and experienced testing staff is ready for any challenge. Our flexible accreditation allows us the widest possible choice of standardised test procedures. RST creates complex and customised test and trial plans with you. We prepare our test reports in German, English and French.

## Environmental laboratory

We carry out any kind of environmental testing

In our environmental laboratory, which is accredited according to DIN EN ISO / IEC 17025:2018, we carry out environmental tests on materials, components, assemblies, prototypes and series devices across all industries. We test your products in climatic, mechanical-dynamic, corrosive, electrical and combined tests as well as in long-term tests.

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### Environmental laboratory

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Accreditation valid for scope according  
to document system D-PL-11012-01-00







## Environmental tests

We carry out environmental tests on materials, components, assemblies, prototypes and series equipment across all industries. We test for customers in all industrial sectors, including the electrical industry, energy industry, automotive industry, aerospace industry, railway technology, shipping, commercial vehicle industry, defence technology and medical technology.

## Test methods

### Temperature tests

**Cold tests** down to -70 °C and **heat tests** up to 300 °C – we simulate a wide range of temperature conditions. This includes temperature changes up to 8 K/min as well as **temperature shock tests** in the variants air-air, air-water and splash water.

### Climate tests

We test the effects of different climatic conditions on your product. RST examines the influence of high humidity or damp heat (constant and cyclic) and low pressure. We also offer **climate change tests** and **condensation tests** (constant and cyclical).

### Sun simulation tests

We carry out **sun simulation tests** for you with metal halide lamps and xenon lamps. We also offer this test as a **weathering test** with superimposed sprinkling.

### Corrosion tests

We carry out **salt mist tests** with neutral NaCl solution, acetic acid and with modified test solutions. RST implements **harmful gas tests** with hydrogen sulphide and with sulphur dioxide and **condensation water tests** with sulphurous atmosphere as well as three- and four-gas tests.



### Tests for chemical resistance

We offer temperature superimposed **chemical resistance tests**. **Various application types** are available for the chemical tests. We test for resistance to reference oils as well as reference fuels, among other things.

### Vibration and shock tests

Our range of mechanical-dynamic tests – also temperature or climate superimposed if required – includes **sinusoidal vibration tests** as well as **vibration tests** with **broadband noise, resonance searches, resonance dwells, shock tests** and **drop tests**.

### Protection class tests

We carry out IP protection class tests according to **IEC 60529** and **ISO 20653**. We test your product for **dust protection, contact protection, foreign body protection** and **water protection**. RST also carries out **impact and shock resistance tests** (IK tests) in accordance with **IEC 62262**.

### Electrical tests

We carry out **insulation tests** such as withstand voltage tests, insulation measurements and partial discharge measurements. Our range of services also includes **low-resistance measurements** (4-wire measurement) and **contact monitoring**.

### Individual tests

We can also support you in **individual questions** beyond the standard specifications. We develop the necessary **hardware and software applications** for monitoring and evaluating tests and set them up at your premises.