

Corrosion testing and environmental simulation



Reliably detect environmental influences on materials

In the course of their lifecycle, technical products are subjected to a large number of adverse climatic influences during storage, transportation and their use. Therefore as a manufacturer you must precisely know the resistance and properties of the materials, construction elements and protective coatings used by you. DEKRA is your skilled partner – from consulting to implementation of tests.

Exposure to environmental influences, such as temperature fluctuations, humidity, UV weathering and corrosive media, can seriously negatively affect the function and lifetime of technical products. How do these environmental influences impact on function, use duration, quality and reliability of the products and their packaging?

Benefit from our experience

With state-of-the-art environmental simulations, DEKRA provides you with all the data required to test the suitability and reliability of your materials or products under environmental conditions. Under controlled conditions, our efficient simulators replicate all the environmental stresses to be expected for the test object and document its condition, function, and failure rate over the desired period. By applying known parameters, the naturally occurring aging process can be accelerated many times over so that reliable, conclusive results are already available after a short time.

The DEKRA Laboratory for Materials Engineering and Damage Analysis is accredited according to DIN EN ISO/IEC 17025. We offer you first-class testing expertise, both for standard tests and for customized tests according to your own specifications. We also advise you in full when it comes to new developments.

Our experience

Everyone talks about safety. We do something about it. Regardless of whether it's for information, advice, measuring or testing: we are not far away from you. Or do you know any other safety service provider who is there for you with such a comprehensive, standardised range of services and consistent quality?

Get an idea of our services for technical textiles and films or talk to us personally straight away.

We look forward to talking to you.

An overview of our services:

- > Salt spray testing (CASS/NSS/AASS)
- > Condensation testing climate (with/without SO₂)
- > Combined cyclic corrosion tests
- > Cyclic temperature and climate tests
- > UV weathering
- > Color and gloss measurements
- > Stone chip resistance of coatings
- > Testing of resistance to wear, adhesive strength and resistance to scratching
- > Testing of badges/adhesive seals
- > Testing of retro-reflective label plates
- > Testing of galvanized drinking-water pipes (German Technical and Scientific Association for Gas and Water, DVGW)
- > Corrosion protection and corrosion expertise on site

Selection of important standards:

- > ASTM G154-12a
- > DIN EN ISO 9227
- > DIN 74069
- > ISO 7591
- > DIN EN ISO 4892-2
- > SAE J2527

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