

Our **building block approach** delivers the depth of information, analysis and advice needed for your specific requirements

Cause analysis

with image documentation and recommendation for follow-up steps

Implementation

of standardised and/or customer-specific tests

Consultation

on material selection or surface protection with verification of developed solutions

Complete package:

Testing, consultation and development of innovative solutions custom created to meet your needs

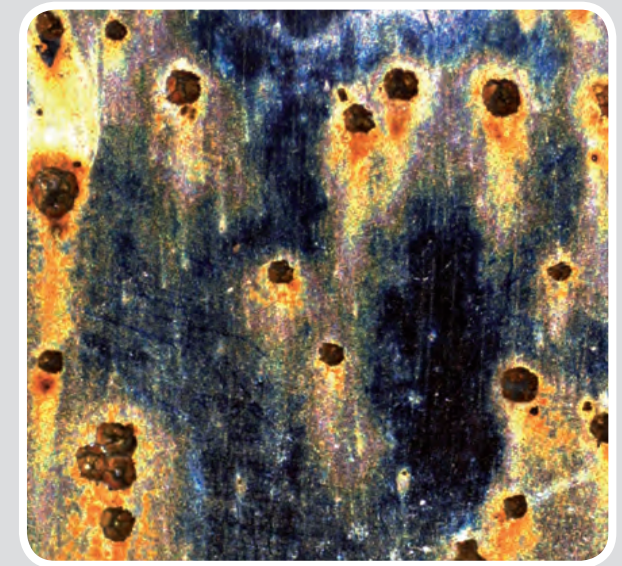
Our strengths for your success

- Your personal contact partner before, during and after project implementation
- Analyses, tests und basic material expertise from a single source
- Interdisciplinary competence in materials science, chemistry and mechanical engineering
- Recommended action, custom created to meet your requirements



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Recognise – Understand – Prevent
Your corrosion specialists

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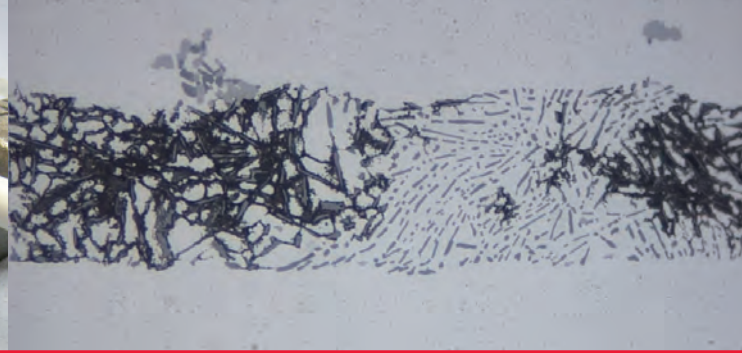
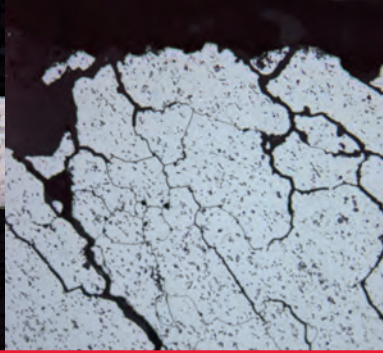
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Recognise – Corrosion causes annual losses ~ 3-4% of GDP

Take advantage of existing know-how and you can avoid the majority of such costs. A layperson tends to see red rust as simply corrosion. However, this is just one of many possible manifestations. Other forms of corrosion include:

- **Pitting corrosion**
- **Contact corrosion**
- **Selective corrosion**
- **Intercrystalline corrosion**
- **Stress corrosion cracking**
- **High temperature corrosion**

There are many different types of corrosion and just as many respective causes. Solid expertise about what causes corrosion and the relationships involved can actively contribute to avoiding additional costs.

Understand – Determining causes and simulating corrosion

Whether researching causes or new developments, we support you with our competence in material analysis and testing and can meet your requirements in all areas of corrosion. We use the following test procedures:

- **Metallography and analysis**
 - Microscopy, SEM with EDX
 - Mechanical tests such as microhardness and tensile tests
 - Test for hydrogen embrittlement
- **Highly informative** results in the shortest possible time by means of: electrochemical potential analysis (DIN 50918)
 - Determining corrosion behaviour of coatings and bulk materials
 - Estimating the operating life of various materials
 - Chemical resistance of surfaces
 - Clarifying the risks of contact corrosion or via impedance spectroscopy (DIN EN ISO 16773)
 - Absence of defects and degradation resistance of coatings
- **Classical corrosion tests** such as
 - Salt spray test DIN EN ISO 9227
 - Stress corrosion cracking test DIN EN ISO 7539-1
 - Strauss test DIN EN ISO 3561
- **Required- and customer-specific corrosion tests** such as
 - Exposure to liquids or gases
 - Exposure to soils, extreme outdoor weathering, alternating (immersion) tests

Prevent – Reduce costs with suitable material selection and development

Thanks to our many years of experience and extensive expertise in the fields of base materials, surfaces, diffusion and corrosion protection, we support you in reducing your costs caused by corrosion and its consequences. Our experts are at your side to select and develop cost-effective solutions to meet your needs.

- **Process-independent and objective assessment**
- **Conducting feasibility studies**
- **Comprehensive consultation** including creating a requirement profile, benchmarking, development order and the testing of innovative solutions
- **Training and coaching in and around the topic of corrosion**
- **Combining science and economics** by participating in technical committees and investing in partnerships with universities and research institutes
- **Everything from a single source:** Analysis, testing and prototyping