

## Technical Center: Materials Expertise

Comprehensive laboratory and field experience ensuring integrated expert support with short reaction times

Custom tailored, multi-disciplinary material and welding solutions that cover the entire product life cycle

### Challenge

In the context of world wide supply chains, the use of construction materials in the industry requires expert knowledge during all stages. This begins with reasonably specifying and testing material properties acc. to applicable international Codes & Standards. It continues with evaluating the materials' manufacturability, anticipating their behavior during welding and also later under actual operational conditions where degradation mechanisms can occur.

In the undesirable event of failures, non-conformances or instable manufacturing or welding processes further expert knowledge is required. Root causes are to be identified and quick, practical mitigation actions are to be performed. This is vital to prevent costly project delays, unavailability of a plant or a process, often associated with high losses for the product or facility owner.

### Solution

The Technical Center offers state of the art materials and welding laboratories. We provide comprehensive, interdisciplinary solutions that also can be provided on-site. Our materials and welding competences are based on decades of profound laboratory and field experience enabling us to provide expert support in a quick and reliable manner. We bridge the gap from R&D to actual industrial application.

The following services are provided:

- Materials and welding consulting
- Destructive materials testing
- Trouble shooting and root cause analysis
- Corrosion testing and engineering
- Mobile material assessment



### Customer Benefits

- Cost reduction due to early prevention of material failure and problem solving oriented analyses in case of non-conformances
- State of the art laboratory infrastructure accredited acc. to ISO/IEC 17025 ensuring the highest quality level of test results
- Quick reaction times through 24/7 services with mobile teams
- Rely on high expertise : field experience, second to none experience in welding process development, multi-disciplinary and integrated approach

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