

## TECHNICAL CENTER: MATERIALS EXPERTISE

Comprehensive laboratory and field experience for 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 or 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
- Non-destructive and destructive material examinations
- Trouble shooting and component failure / root cause analysis
- Corrosion testing, engineering and consulting
- Mobile material assessment

**Your performance**  
is **our** everyday **commitment**

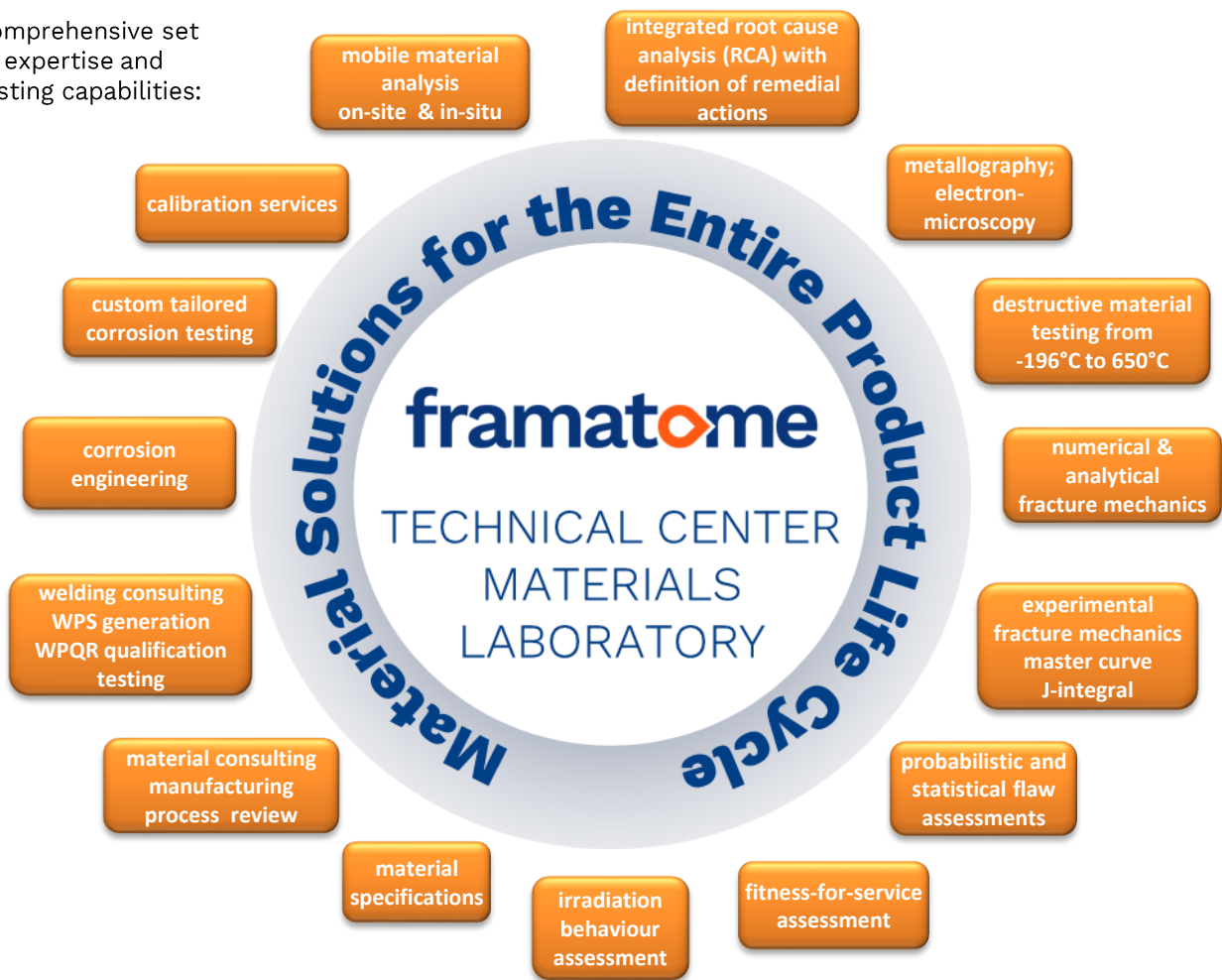


### Customer benefits

- 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 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

## Technical information

Comprehensive set of expertise and testing capabilities:



## Global References

- Nuclear Power Plants
- Research reactors
- Nuclear installations
- Nuclear equipment suppliers
- Conventional power plants
- Wind energy industry
- Refineries
- Chemical industries
- Mobility industries
- Healthcare
- Equipment suppliers
- Insurance companies

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