

## Materials Consulting

### Competence Center for Materials Engineering

From concept developing, manufacturing and processing of semi-finished products up to the finished application: custom-tailored materials consulting

#### Challenge

You are looking for an optimum material solution for a specific design or task? You need a reliable materials supplier having all relevant qualifications? You have already selected a material that needs to be qualified or evaluated in terms of deviations?

#### Solution

In choosing Framatome you have found a reliable partner with comprehensive expertise from a broad variety of successful projects who will support you in all material-related matters. We provide material consulting, support you in procuring semi-finished products and also develop qualification concepts if required. Based on our experience, we prepare material specifications addressing additional quality-related requirements not stated in codes and standards. Depending on the product, we develop manufacturing and inspection concepts in close cooperation with our customers.

Our material specifications are based on the following:

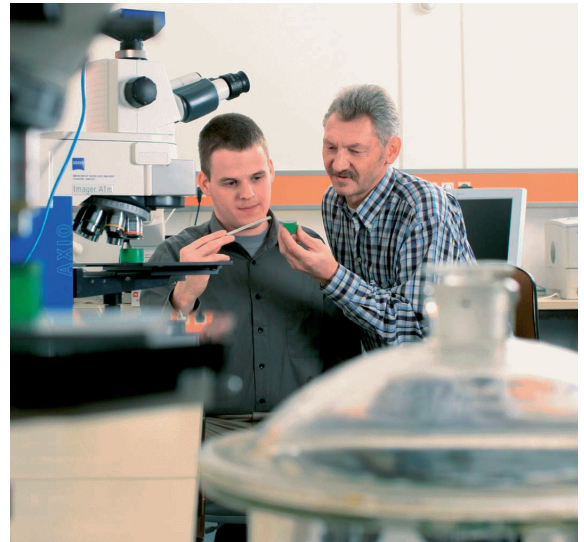
- Codes and standards such as EN, ASME, RCC-M, KTA
- Material approvals
- European directives
- Customer requirements.

We evaluate potential deviations from the specified material properties and their effect on fitness-for-purpose. If required, we prepare the non-conformance report and define the corrective actions.

#### Customer benefits

- Short reaction times even for complex tasks
- Extensive laboratory infrastructure in associated disciplines (chemistry, radiochemistry, thermal hydraulics and fluid dynamics, component and system testing, component qualification)
- Integrated solution competence from one single source

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



Materials Laboratory

#### Technical information

- Materials selection and procurement
- Process qualification (forming and manufacturing)
- Supporting mechanical acceptance testing
- Issuing of inspection certificate type 3.1 (DIN EN 10204)
- Creation of follow-up documents
- Heat treatment
- Codes and standards
- Fitness-for-purpose evaluation
- Preparation of material specifications.

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