Chemical Analysis
- Alloy Chemistry
- Trace Element Analysis
- Cleanliness Testing (Internal, External)
- Positive Material Identification (PMI)
- Nonmetallic Material Confirmation
- Contaminant Analysis
- Plating Analysis
- OES
- ICP-AES
- ICP-MS Trace Element Analysis
- XRD
- XRF

Corrosion Testing
We can identify corrosents and other environmental variables that are directly responsible for corrosion attack. We have a history of addressing complicated corrosion issues including stress corrosion cracking, environmental stress cracking, and many other mechanisms.

- Corrosion Failure Analysis
- Electrochemical Corrosion Simulation
- Slow Strain Rate
- Corrodent Identification

Not just data, knowledge

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**Mechanical Testing**

Fracture Mechanics Testing  
Tensile/High Temperature Tensile  
Hardness (Brinell, Rockwell)  
Fatigue (LCF, HCF, RBF)  
Creep and Stress Rupture  
Impact Testing  
Torsion  
Bend Testing (including wraparound)  
Resistance Weld Peel Testing  
Full In-House Machining Capabilities

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**Metallurgical & Failure Analysis**

AWS Certified Weld Inspection  
Macroetch  
Microhardness (Weld, HAZ, Base Metal)  
Failure Analysis  
Defect Detection  
Cross Sectional Analysis  
Braze Procedure/Process Analysis

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**Why IMR?**

We can assist you in qualifying your commercial parts and materials to meet the critical characteristics for the nuclear power industry.

At IMR Test Labs, we have the equipment, certifications, analytical techniques and a knowledgeable staff to help you.

This also includes a quality assurance program in compliance with 10CFR50 Appendix B, 10CFR Part 21, ASME III Subsection NCA 3800, ASME NQA-1 and ISO 17025. Our facilities have also been audited by NIAC member companies.

We regularly serve dozens of NQA-1 customers and have performed commercial grade dedication work on many materials including polymers, metallic materials, composites and specialty alloys.

At IMR Test Labs we are accessible and responsive. We understand that you need the right answer, on time.

We are technical professionals, with all of the requisite qualifications and accreditations. Our analytical reports are comprehensive and written in understandable terms.

We strive to create long term working relationships and would like to earn your business.

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**Accreditations**

We are compliant with the relevant sections of the following:

- ISO 17025  
- ASME NQA-1  
- 10CFR50 Appendix B  
- ASME III Subsection NCA 3800  
- 10CFR Part 21  
- NIAC Approved