Analytical Services
for the
Nuclear Power
Industry

Chemical Analysis
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Corrosion Testing

We can identify corroders 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 Corrosion Test
- Coolant Corrosion Identification

Corrosion Testing

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

Nadcap

Accredited

www.imrtest.com
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

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.

Metallurgical & Failure Analysis

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

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