

Failure Analysis & Metallurgical Services

We Take A Closer Look

- Scanning Electron Microscopy
- Energy Dispersive Spectroscopy
- Optical Fractography
- Hardness Testing
- Mechanical Testing
- Chemical Analysis

Failure Analysis & Metallurgical Services

Whether you are investigating a single component or dealing with a system failure, you can rely on the ATS Failure Analysis Group's expertise and testing techniques to meet your full failure analysis needs. From fractures to formability problems, corrosion to wear, our analysts will find the root cause of the failure and assist in plans for prevention.

Applied Technical Services' metallurgists and professional engineers routinely conduct failure analyses on a wide variety of materials, including steels, stainless steels, titanium, superalloys, copper alloys, aluminum, plastics, ceramics and glass.

Quality Programs & Accreditations

- ISO 9001
- Accredited to 17025
- 10CFR50 Appendix B
- ANSI/NCSL Z540-1
- ASNT-TC-1A
- MIL Standard 410
- Over 100 Technology Sector Vendor Approvals

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Website: www.atslab.com

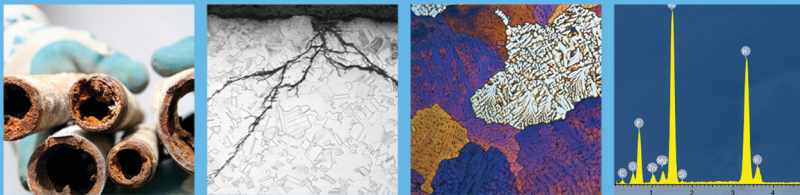
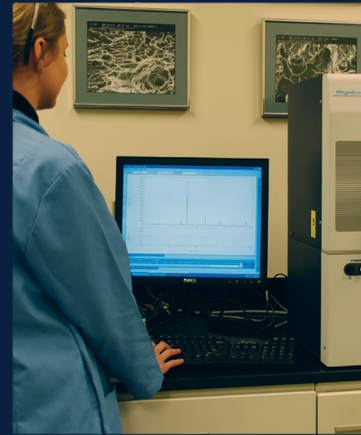
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Metallurgical Services

At ATS, we understand that you don't just need testing, you need interpretation. Our engineers and metallurgists consult with you to determine the full scope of every project-factors such as the material of manufacture, the size and shape of the component, and the specification influence the testing decisions.

Metallurgical Services Include:

- Microstructural Assessment
- Grain Size Measurement
- Graphite Evaluation
- Inclusion Rating
- Rockwell Hardness Testing
- Brinell Hardness Testing
- Vickers Hardness Testing
- Case Depth Measurement
- Knoop Microhardness Testing
- Vickers Microhardness Testing
- Plating Thickness & Type
- Plating Hardness
- Field Microstructural Evaluation and Replication
- On Site Hardness Testing



Litigation Support

Our professional engineers and PhDs will help both you and the jury understand the scientific aspects of the case. ATS provides a variety of services relating to analysis and opinion on legal evidence, including:

- Expert witness opinion and testimony in the field of Metallurgy and Fracture Analysis
- Expert witness opinion and testimony in the field of Mechanical Engineering
- Hosting of laboratory testing, as a neutral party, for other Expert's scopes of work involving Mechanical, Metallurgical, NDT, Chemical, and Dimensional Analyses
- Subrogation failure analysis

Testing is performed per industry and international standards.

First Article Testing

When you require first article testing before bringing your product to market, ATS can help. Our extensive experience with metallurgical testing, mechanical testing, chemical analysis and dimensional inspection makes Applied Technical Services' engineers valuable partners during first article testing of your products.

Metallurgical Testing Services Specifications:

- ASTM E3
- ASTM E18
- ASTM E384
- ASTM E112
- ASTM E10
- ASTM A247
- ASTM B487
- ASTM B748

Partial List of Customers:

- American Boa
- Allied Signal
- Alstom Power
- Blue Bird
- Boeing
- Borg Warner
- Caterpillar
- CIBA Vision
- Delta Airlines
- Eaton Corporation
- Florida Power
- General Electric
- Georgia Pacific
- Georgia Power