

Service Area

ATS employs approximately 500 personnel in several branch offices throughout the Eastern United States. Although most of the laboratory testing services are housed in our headquarters location in Marietta, GA, we can provide inspection services anywhere in the U.S. or abroad.

Scheduling

ATS is always available to handle your inspection needs and will respond to each request in a prompt and timely manner. Simply contact us at the number below to schedule an inspection project or to set-up a visit by an ATS representative.

Quality Programs & Accreditations

- ANSI/ASME NQA-1
- 10CFR50 Appendix B
- 10CFR21
- ISO/IEC 17025*
- ISO 9001
- ANSI/NCCL Z540-1



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Corporate Office: 1-888-287-5227
www.atslab.com



ATS, founded in 1967 and headquartered in Marietta, GA is one of North America's leading consulting engineering firms with extensive testing and inspection capabilities delivering a combination of experience, professionalism and decisive responsiveness for our clients.

*All accreditations are granted to certain disciplines operating within ATS. Each certification/affiliation or accreditation has a special defined scope. Please visit www.atslab.com or contact the ATS Quality Assurance Department at 1-888-287-5227 for further details.

Field Testing

ATS offers many of the Mechanical Testing Services performed in our lab at the client's job locations as needed. Our on-site capabilities include:

- Pressure Testing
- Load Testing
- Dead Weight Testing
- Proof Load Testing of Railings
- Anchor Testing
- Hardness Testing
- Metallography/Replication
- Certified Weld Inspections (CWI)



Mechanical & Special Testing



Mechanical Testing Services

ATS offers a complete range of mechanical testing services. A well-equipped in-house machine shop provides timely preparation of test specimens or any special fixturing. Our experienced test engineers can also help you design custom special testing programs to test your products.

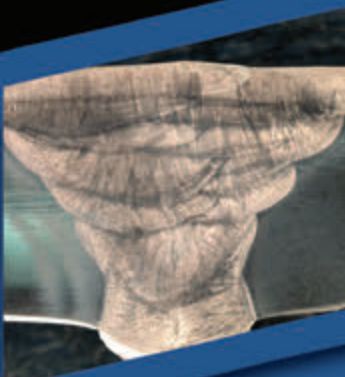
Whether it is life cycle testing of playground slides or performance testing of automotive steering pumps, ATS has the experience and capabilities to satisfy your needs.

Common Capabilities:

- Weld Procedure Qualification (ASME, AWS, PED/EN, API)
- Welder Performance Qualification
- Impact Testing (Charpy, Drop Weight)
- Tensile, Compression, Shear, Torsion and Bend Testing
- Stress Rupture
- Hydrogen Embrittlement Testing
- Fastener Testing
- Hardness Testing (On-site and Lab Testing)
- Strain Gaging
- Pressure Testing
- Helium Leak Testing
- Customized Product Testing
- In-house Machining, Specialty Fabrication



Mechanical & Special Testing



Weld Testing and Weld Qualifications

Applied Technical Services, Inc. welding engineers ensure industry standards are maintained by assisting in preparing welding procedure specifications and weld procedure and performance qualifications.

Applied Technical Services, Inc. uses a wide variety of techniques and standards such as ASME, AWS, API and PED/EN to serve our clients' vast weld testing needs. Many companies require their welders be qualified, and at ATS we are able to test all aspects of weld procedure and performance qualifications by conducting destructive and nondestructive tests to ensure conformance to code requirements. Our testing capabilities include:

- Bend Testing
- Macro Etching
- Tensile Testing
- Hardness Testing
- Corrosion (ASTM A262) Testing
- Impact Testing (Charpy, Drop Weight)
- Weld Failure Analysis
- PMI



Special Testing

Applied Technical Services is equipped to handle customized Load Tests, Pressure Tests, Accelerated Life Cycle Tests and Wear/Fatigue Tests. Our Special Testing Group has the equipment and knowledge to satisfy a wide variety of testing requirements.

Load Testing

Applied Technical Services has performed numerous load tests on a variety of items ranging from space shuttle parts to hand railings. We can perform this testing in-house or on-site using customer supplied fixtures or fixtures designed by ATS specifically for our clients. Our engineers work closely with our clients to simulate life-like scenarios to achieve the most accurate test results.

Pressure Testing

Applied Technical Services has the capability to perform pressure tests, both in-house and in the field. Our pressure capabilities range from vacuum to 20,000 psig. With these capabilities, we are able to test a large variety of items from proof pressure testing nuclear plant components to burst testing copper tubes.



Accelerated Life Cycle & Wear/Fatigue Testing

Applied Technical Services has the resources to simulate real world wear and tear testing; our Engineers have performed many Accelerated Life Cycle tests as well as fatigue testing on numerous parts. Our range of parts tested includes prototype parts for small business ventures to production components from large industrial and manufacturing corporations.

Strain Gage Testing & Strain Measurements

Strain gages are used to determine material stress due to static and dynamic loads coming from internal and external sources such as mechanical, thermal and pressure. ATS offers:

- In-house and Field Strain Gage Applications and Testing
- Load Monitoring
- Mechanical Stress Analysis

ATS can apply the appropriate strain gage type to the test surface, perform data acquisition and provide results to assist in identifying the stress levels to avoid mechanical failure or fatigue. The data can also assist you in verifying your design criteria and/or validate your finite element analysis results.



When Quality is Non-Negotiable!

Hardness Testing

ATS can accommodate the needs of our clients in the hardness testing area with capabilities in various hardness scales such as, Brinell, Rockwell, Superficial Rockwell, Webster, Barcol, Leeb, Knoop and Vickers.

Fatigue Testing

ATS has expanded our testing capabilities to include fatigue, fracture toughness, CTOD, and high temperature tensile testing with the addition of two new MTS Fatigue Testers. The versatile servo-hydraulic systems will allow us to perform numerous types of fatigue tests on many different sample sizes and orientations. Some of our wide range of testing parameters include:

- Load Capacity: 100kN – Dynamic Load
120kN – Static Load
- Temperature Range: Ambient – 1000°C

CTOD Testing

Fracture Toughness determines the amount of stress required to propagate an existing flaw or defect in specific materials. Since traditional methods of destructive testing cannot always predict how a material will behave with a defect, fracture toughness is very important in the design stage.

Crack-Tip Opening Displacement (CTOD) is used as a type of fracture toughness testing to determine if a material is appropriate for strenuous working conditions. CTOD testing is the measure of plastic deformation prior to failure in a pre-cracked sample. This type of test is a variation of fatigue testing that has load rates more representative of in-service conditions.

Applied Technical Services
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