

Additional Capabilities Include:

Our capabilities extend into the field of organic chemistry with many analyses performed by Fourier-Transform Infrared (FTIR), Pyrolysis Gas Chromatography-Mass Spectrometry (PGC/MS), High Pressure Liquid Chromatography (HPLC), and Thermal Analysis (DSC, TGA, TMA).

- Polymer Identification
- Solvents, Accelerants, Oils
- Paints & Paint Products
- Specialty Formulations
- Product Purity and Residual Components
 - Raw Material Quality Checks
 - Hydrocarbon Cleanliness Testing
 - Ion Chromatography
 - Cold Vapor Mercury AAS

Quality Programs & Accreditations

ATS maintains quality through the high standards that are the hallmark of our company.

- ISO 9001
- ISO 17025
- 10 CFR 50 Appendix B
- ANSI/NCSL Z540-1
- ASNT-TC-1A
- MIL Standard 410
- Over 100 Technology Sector Vendor Approvals



1049 Triad Court - Marietta, GA 30062
Corporate Office: 1-888-287-5227
www.atslab.com



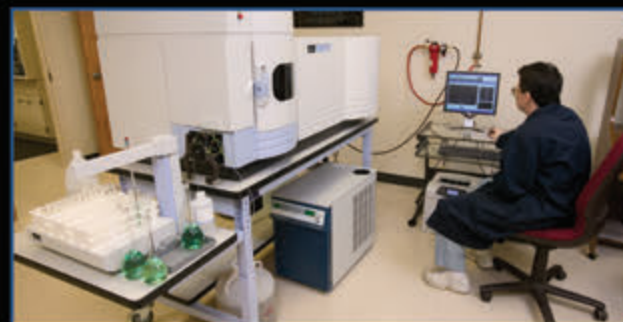
ATS, founded in 1967 and headquartered in Marietta, GA is one of North America's leading consulting engineering firms with extensive testing and inspection capabilities delivering a combination of experience, professionalism and decisive responsiveness for our clients.

*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.



Supporting Services for All Industries:

- Random Quality Control Checks
- Supplier Materials Verification
- Process Controls
- Residual By-Product Identification
- Research and Development
- Competitive Market Evaluations



Chemical Analysis



Chemical Analysis Services

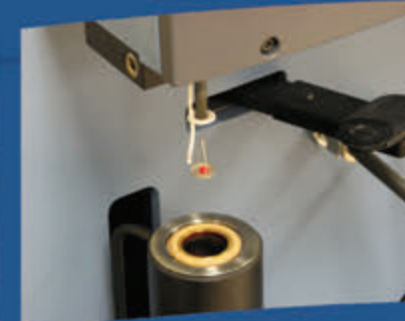
ATS offers you the broadest spectrum in chemical analysis with capabilities for determinations of nearly every element at any level of concentration, in virtually any material known.

- Trace Metals Analysis in Organic or Inorganic Matrices
- Commercial Grade Dedication for the Nuclear Industry
- On-Site Positive Material Identification (PMI)
- High Purity Metals Analysis
- Alloy Identification
- Wet Chemical and Elemental Analysis
- Comprehensive Polymer Testing
- Corrosion Product Identification
- Consumer Product and Toy Testing
- California Proposition 65 Testing
- Lead Testing of Paint
- Volatile Organic Compounds (VOC)
- Formaldehyde
- Contamination Analysis



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Chemical Analysis



Metal Analysis

Our chemistry department specializes in determining the elemental composition of ferrous and nonferrous alloys that are used in a variety of industries. Alternate techniques allow us to determine the composition of materials regardless of their size, shape, or base material.

We utilize proven classical wet chemical techniques when analysis of highest accuracy is needed. Our staff is well trained in the use of ASTM, EPA, NIOSH, and other classical analysis methods.

Additionally, participation in proficiency testing programs both in the metals and polymers fields reinforces our commitment to quality to ensure that the results generated are the most accurate possible.

Examples include liquid samples that are analyzed using inductivity coupled plasma techniques and trace elements that can be detected in milligram or smaller size samples using energy dispersive x-ray/scanning electron microscopic methods.

- Optical Emission Spectroscopy
- ICP Atomic Emission
- Atomic Absorption
- Carbon & Sulfur Combustion Analysis
- Hydrogen, Nitrogen & Oxygen (Carbofusion Analysis)
- Classical Wet Chemistry
- Scanning Electron Microscopy (SEM/EDS)
- Stainless Steel
- Low Alloy & Carbon Steel
- Aluminum Alloys
- Nickel Alloys
- Cobalt Alloys
- Cast Irons & Steels
- Tool Steels
- Copper Alloys



Non-Destructive On-Site Chemical Analysis X-Ray Fluorescence

ATS offers a non-destructive analysis alternative for 21 common alloying elements found in iron, aluminum, nickel, cobalt and copper-based alloys. Because the instrumentation is portable, ATS can analyze your samples on-site, thus significantly reducing down time and eliminating the shipping costs associated with sending out samples. Our technicians can be at your site within 24 hours of when your request is made.

- Materials Sorting
- Positive Material Identification (PMI)
- Large Vessels/Boilers
- Fixed Structural or Process Components
- Welds
- Fasteners



When Quality is Non-Negotiable!

ATS Polymer Testing

Polymer Testing at ATS is a comprehensive service utilizing experienced and dedicated professionals using state-of-the-art equipment. Our capabilities include polymer characterization, molecular weight studies, and dilute solution viscosity as well as the determination of mechanical properties such as impact, tensile/flexural strength, hardness, and flammability. Whether your polymer testing needs are process related or incoming material verification, ATS provides you with accurate and timely results to answer any polymer question that you have.

- Failure Analysis of Plastics and Polymers
- Tensile or Flexural Strength of Films, Fibers, and Coatings
- Modulus by Dynamic Analysis (DMA, TMA)
- Heat Deflection Temperature Under a Load (DTUL)
- Coefficient of Thermal Expansion (CTE) by TMA
- Flammability, Heat Aging, and Thermal Stability
- Accelerated Weathering (UV Degradation)
- Tg, Melting Point, Crystallinity, and Heat Capacity (DSC)
- Filler Content and Decomposition Analysis (TGA)
- Polymer Identification (FT-IR)
- Analysis for Plasticizers, Inhibitors, and Additives
- Inherent/Intrinsic Viscosity
- Melt Flow Rate/Capillary Rheometry
- Durometer Hardness

Applied Technical Services
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