



*THERE'S*

**ACCURATE...**

# AND THERE'S INDUSTRIAL INSPECTION & ANALYSIS ACCURATE.

Industrial Inspection & Analysis (IIA) is one of the most well-known and trusted names in testing, inspection, and certification. We are your trusted partner in aerospace, defense, energy, environment, life sciences, oil & gas, and transportation to name a few and we draw on our complete breadth of services and expertise nationally and locally to help you better manage your total cost of ownership. Whether you need mechanical, chemical or metallurgical property testing, we can provide custom solutions, timely turnarounds, and great customer service making us a national leader with roots that date back nearly a century.

IIA's growth continues by seeking out and acquiring the best-of-the-best testing labs across North America. We have consistently expanded our already robust range of experts and vast service offerings, and our most recent laboratory acquisition allows us to serve a national footprint with a local presence.

“ Working with IIA just makes sense...they have fantastic technical knowledge and skills. ”  
- Stephanie Gehrke - Quality Manager at Commercial Plastics

## Partner with IIA Lab Services for:



Fast turnaround times



Accurate results



Reliability



Cost containment





# SERVICES WE PROVIDE

## CHEMICAL ANALYSIS

- Salt Spray and Humidity Testing
- Alloy Identification (OES) and (ICP-OES)
- X-Ray Fluorescence Spectroscopy (XRF, PMI)
- Polymer Characterization and Failure Analysis
- Pyrolysis Gas Chromatography Gas Spectrometry
- Fourier Transform Infrared Spectroscopy (FTIR)
- Thermogravimetric Analysis (TGA)
- Differential Scanning Calorimetry (DSC)
- Mineral, Ore, Particulate Testing
- Deformulations and Product Analysis
- Coating Adhesion, Weight, Resistance

## METALLURGICAL TESTING

- Failure Analysis
- Scanning Electron Microscopy (SEM)
- Energy Dispersive Spectroscopy (EDS)
- Coating/Plating Thickness and Evaluations
- Microstructure Analysis
- Grain Size
- Microhardness
- Immersion Corrosion Evaluations
- Surface Roughness Measurement
- Conductivity Testing
- Deposit Weight Density

## NON-DESTRUCTIVE TESTING (NDT)

### RADIOGRAPHY:

- Gamma ray: Iridium 192 and Cobalt 60
- X-ray
- Film interpretation to codes: AWS, ASME, ASTM, API

### ULTRASONIC:

- Flaw detection
- Immersion
- C-scan
- Thickness measurements

### AIRCRAFT INSPECTION:

- Federal Aviation Agency Certification

### MAGNETIC PARTICLE INSPECTION:

- Dry, Wet, Fluorescent

### PENETRANT TESTING

### VISUAL INSPECTION:

- CWI Personnel
- CCTV Mini Camera/Video Record
- Borescope

### EDDY CURRENT

### GROUND PENETRATING RADAR

### PERSONNEL CERTIFIED TO:

- ASNT-TC-1A
- NAS 410
- ASNT CP-189
- NAVSEA T9074-AS-GIB-010/271



# SERVICES WE PROVIDE

## DIMENSIONAL INSPECTION

- First Article Inspection
- Capability Studies
- Supplier Validation (3rd Party Inspection)
- Fixture Evaluation
- CMM training on PCDMIS and Calypso
- FARO laser scanners training
- CT & Laser Scanning
- Part to CAD Comparison
- 3D Dimensional Inspection
- Geometry Recreation (Reverse Engineering)

## MECHANICAL TESTING

- Tension Testing
- Compression Testing
- Shear Testing
- Hardness Testing
- Impact Testing
- Tear Strength
- Flexural Properties
- Welder Qualifications
- Welding Procedure Qualification (AWS/ASME)
- Abrasion Testing (Taber)
- Pressure Testing (Hydrostatic/Air)
- Proof & Load Testing

## WIRELESS & TELECOMMUNICATION EMC/EMI TESTING

- EMF/RF Exposure & SAR testing
- Electrical/Product Safety Testing
- ISO/IEC 17065: 2012 Accredited Product Certification Body (IIA EMC/Timco) for U.S. FCC, ISCED Canada, MIC Japan, IMDA Singapore. Notified/Approved Body (NB/AB1177) for the EU Radio Equipment and EMC Directives and the United Kingdom Radio Equipment and EMC Regulations.

## CONSUMER GOODS

- CPSIA Test Methods
- ASTM F963
- RoHS Compliant and certified by the US Consumer Product Safety Commission (CPSC)

## CALIBRATION

- Torque
- Electrical
- Dimensional Metrology
- Force
- Vacuum
- Pressure







**ENVIRONMENTAL TESTING**

- Water, Wastes, Sludge, and Soil Samples
- Drinking Water Coliforms and *E. coli*
- EPA Test Methods
- Karl Fischer Moisture
- Flashpoints
- Trace Elements - Lead, Mercury
- Biological Activity Reaction Test (BART)

# EASE, SPEED, AND CONVENIENCE

## YOU CAN COUNT ON

IIA's experts combine unmatched technical expertise with exceptional customer service to provide our customers the data they need to be successful. Everything we do is to help you develop quality products, minimize down-time, and manage total cost of ownership while keeping quality at the forefront.



Trust IIA to be your testing partner.

# CUSTOM SOLUTIONS

IIA Labs leverage a broad breadth of knowledge across all of our facilities to analyze and determine the best methodologies for our customer's unique needs. We offer decades of experience providing custom testing to numerous industries and organizations. We'll also develop tests to evaluate your product's safety and performance. Bring us your toughest problem. We will find a solution.



***Making the World Safer***



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