

NONDESTRUCTIVE TESTING

Laboratory Testing Inc. (LTI) inspects tubing, pipe, plates, castings, fasteners and many other items by nondestructive testing (NDT) methods to identify defects or inconsistencies without harming products:

- Ultrasonic testing
- Hydrostatic pressure testing
- X-ray inspection
- Magnetic particle inspection
- Liquid penetrant inspection
- Visual examination

LTI nondestructive testing is accredited to ISO/IEC 17025 by PRI/Nadcap and complies with ISO 9001 and ISO 13485. Our NDT inspectors are certified to ASNT SNT-TC-1A, NAS410/MIL-STD-410, MIL-STD-2132 and Pratt & Whitney PWA-NDTQ to meet your industry requirements. Strict quality procedures are followed to ensure reliable results, which are evaluated by our certified NDT Level II and Level III technicians and documented in Certified Material Test Reports.

ULTRASONIC TESTING

Immersion & Contact UT for All Size Materials

Ultrasonic testing (UT) is a reliable method of detecting internal and external defects and wall thickness discontinuities. LTI has equipment to test products of all shapes and sizes and has an extensive inhouse library of tubing, pipe, bar and plate reference standards for efficient turnaround.

- High-speed Immersion - Round stock from 1/8 in. to 6 5/8 in. diameter and up to 70 ft. long.
- A, B, and C-scan Tank Immersion - Oversized round material up to 24 in. by 18 ft. and flat material up to 4 ft. by 18 ft. with a weight limit of 5000 lbs.
- Contact - All other material.



Immersion Ultrasonic Testing of tubing

HYDROSTATIC PRESSURE TESTING



Hydrostatic Pressure Testing

Testing for Leaks & Durability

Our technicians are equipped to do hydrostatic pressure testing to 10,000 PSI on pressure vessels such as pipe, tubing, and coils. Testing can be performed with water, oil, or air under water.

Laboratory Testing Inc. offers many additional services to meet your complete NDT inspection needs, from material preparation to packaging and shipping in accordance with ANSI N45.2.2 or customer specifications:

- Receipt inspection
- Cutting, trimming and deburring
- Material identification

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NONDESTRUCTIVE TESTING

MAGNETIC PARTICLE INSPECTION



Fluorescent Magnetic Particle Inspection

Magnetizing Material to Attract Particles to Flaws

Magnetic particle inspection (MPI) identifies surface and near-surface flaws such as cracks, laps and seams in products that can be magnetized. Laboratory Testing technicians perform both fluorescent wet and visible dry methods of inspection. The fluorescent wet solution is used most frequently because the particles are small, yet easy to see, and the solution flows well to small leakage fields. Our equipment can handle products up to 12 feet long and has a maximum output of 6,300 amps.

LIQUID PENETRANT INSPECTION

Penetrant Inspection for Materials up to 25 Feet

Liquid penetrant inspection (LPI) is reliable for detecting surface-breaking defects on materials with a non-porous surface. Inspections at LTI are performed on products up to 25 feet long using fluorescent dye or visible penetrants with dip tanks, a dwell tank for pipe, tubing, bar, etc., and a large LPI and Visual Inspection room with high-intensity black lights.

We work with water-washable and post-emulsifiable fluorescent penetrants in sensitivity levels 2, 3 and 4. All orders are processed with the highest quality Magnaflux testing materials.

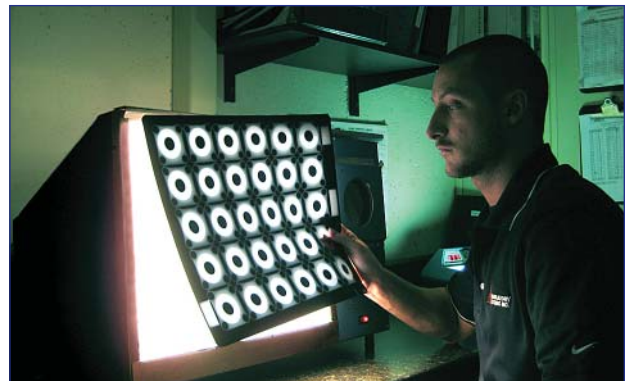


Fluorescent Liquid Penetrant Inspection

X-RAY INSPECTION

See What's Inside with X-ray

X-ray inspection is used to locate internal discontinuities, verify the integrity of internal components and determine the quality of welds. At LTI, our equipment can X-ray items large and small in our 20 ft. by 20 ft. radiography vault or our lead-lined cabinet for objects such as electronic parts.



Review of X-ray film



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