

Quality Digest

2003 Quality Sourcebook

Nondestructive Testing

This is the first year that nondestructive testing has been included in our Quality Sourcebook, and we anticipate that our coverage of this category will grow in the years to come. The realm of NDT encompasses any kind of testing in which the part being examined is unharmed. Ideal for large- and/or expensive-equipment manufacturers (e.g., aerospace, bridge-building, military, power generation and chemical industries), NDT is fast becoming a hot new option for companies that simply can't afford to damage or destroy a part in order to test it.

Even if your company deals with smaller or less expensive parts, there still may be a need for NDT. If anyone in your organization uses a microscope, thickness gage, digital camera or even a magnifying glass during inspection, then you're already using NDT. The key is to discover what types of NDT are best suited for your organization and which companies provide NDT products and services. This guide is intended to assist you in your search.

NDT Guide

NDT Directory.....94

This directory of nearly 200 nondestructive testing companies includes the company name, address, phone and fax numbers, and Web address. For a brief description of the company's related products and/or services, visit www.qualitydigest.com/directories. (Please note that not all companies provided us with descriptions.)

As with all *Quality Digest* guides, the NDT Guide is in no way meant to endorse or exclude a particular organization. Rather, it's meant to be used as the starting point in the data-gathering process. Readers are encouraged to contact the companies directly for more information and to ask for—and check—references.

We appreciate any feedback you have on our NDT Guide. If you have any suggestions for how we can improve this guide for next year, e-mail them to sourcebook@qualitydigest.com.

Glossary

Acoustic emission testing—a method of NDT involving the detection of sound a flaw emits when a material is subjected to pressure

ASNT—American Society for Nondestructive Testing

Electromagnetic testing—also called eddy current testing. An electrical current flows through a ferromagnetic part. The flow of eddy currents is disrupted at imperfections, including dimensional changes and changes in the materials' conductive and permeability properties.

Leak testing—a method of NDT that detects flaws by identifying leaks in the material. An example is a bubble test, in which a material is covered with a soapy film. Bubbles that form on the surface indicate a flaw in the material.

Liquid penetrant testing—a form of NDT that detects flaws on the surface of a part using an illuminated visible or florescent dye.

Magnetic particle testing—a part is subjected to a magnetic field and dusted with magnetic particles, which concentrate near imperfections on and near the part's surface.

Radiography—X-ray testing of a part to detect flaws within its structure

Ultrasonic testing—high-frequency sound waves are directed toward a part. The sound waves that bounce back indicate flaws in its structure.

Visual/optical NDT—looking at an object to detect flaws on its surface. This involves the use of microscopes, borescopes, magnifying glasses and other visual inspection devices.

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