

## Non-Destructive Testing (NDT)



Non-destructive testing is used as part of a manufacturing or installation inspection to check if quality demands are being met. As an example, welded steel joints are x-rayed to check the quality of the welding. The radiographic test reveals if the joint is fully welded or contains unacceptable faults.

Non-destructive testing is also used as part of in-service inspections or preventive maintenance to quantify the status of critical components and equipment. As an example, the steel plate floor of a storage tank can be inspected with a special floor scanner. The floor may be subject to corrosion and the scanner measures the remaining plate thickness. If too thin, the plate needs to be replaced to avoid the tank starting to leak.

Kiwa Inspecta is a leading provider of non-destructive testing services. Our personnel are highly skilled. We invest continuously in training and technology. Continuous and ongoing development and application of testing systems are done in close collaboration with our clients.

### Typical objects

- Pressurized equipment
- Mechanical equipment
- Safety or up-time critical components

### Basic and advanced non-destructive testing services

We can offer your company both basic and more advanced non-destructive testing services:

- Visual Testing (VT)
- Magnetic Particle Testing (MT)
- Penetrating Testing (PT)

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- Radiography Testing (RT)
- Ultrasonic Testing (UT)
- Eddy Current Testing (ET)
- Leak Testing (LT)
- Material Identification (PMI)
- Advanced VT; Video Endoscopy
- Advanced RT; Digital Radiography
- Advanced UT; Phased array, TOFD, EMAT, IRIS, Long and Short Range UT
- Advanced ET; MFL, SLOFEC, eddyMax, array ET

### **Accreditations according ISO/IEC 17025:2005**

Kiwa Inspecta is an accredited laboratory for non-destructive testing under EN17025.

#### **Non destructive testing**

- Visual testing
- Radiographic testing
- Ultrasonic testing
- Penetrant testing
- Magnetic particle testing
- Eddy current testing
- Physical testing of soil
- Physical testing of buildings and building constructions

#### **Destructive testing**

- Bend test
- Break test
- Tensile test
- Hardness test
- Impact test
- Macro examination
- Micro examination

Specific information concerning the scope of the accreditations are available on request.

#### **Benefits of using non-destructive testing**

- High quality
- Verifies requirements
- Prevents failure or break down of critical equipment

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