



# **INCOTEST**

## **Insulated Component Test**

## Introduction

Using pulsed eddy current method for measuring the remaining average wall thickness under insulation of low alloy carbon steel/ferromagnetic object and analyzing their decay and is the most reliable method for corrosion detection.

This is an excellent technique to be applied on objects that are insulated and also can be applied on objects that are difficult or extreme cost accessible. The range of application is enormous and INCOTEST contributes in significantly reducing inspection cost. This pulse eddy current technology is an excellent on-stream tool for positioning further inspection works during shut down or periodic maintenance works.



## Advantages:

- ON/OFF –Stream Measurements
- Up to 1000 measurements per day (fast –speed)
- Battery Operated
- No Coupling required
- Minimized Preparation Cost ( including material surface)

This system does not require cleaning or removal of concrete/coating/insulation. In most cases scaffolding is not necessary and this results in huge savings in comparison to traditional inspection preparation cost.

By monitoring with INCOTEST, you will substantially reduce the chances to failure of your equipment. Assessment of the damage that results from CUI (Corrosion Under Insulation) or FAC (Flow Accelerated Corrosion) is a relatively inexpensive and a prudent prevention method.

## ***Applications:***

The INOCTEST sensor can be easily handled by a diver or a rope access operator to improve accessibility. For measurements on risers and caissons in the splash zone or deeper a manipulator can be applied.

INCOTEST can be used to detect Accelerated Low Water Corrosion and a comprehensive report will address the areas where maintenance is necessary which enables you to plan your maintenance and allocate funds necessary

Typical applications are:

- insulated vessels,
- pipelines and storage tanks,
- legs of spherical tanks,
- riser/caisson (splash zone)
- rough corroded or coated surfaces (steel sheet piling)

The technique is perfect for screening applications. Customers gain the knowledge they need about their installations well before shutdowns so that they can allocate maintenance budgets to where it is required most urgently.

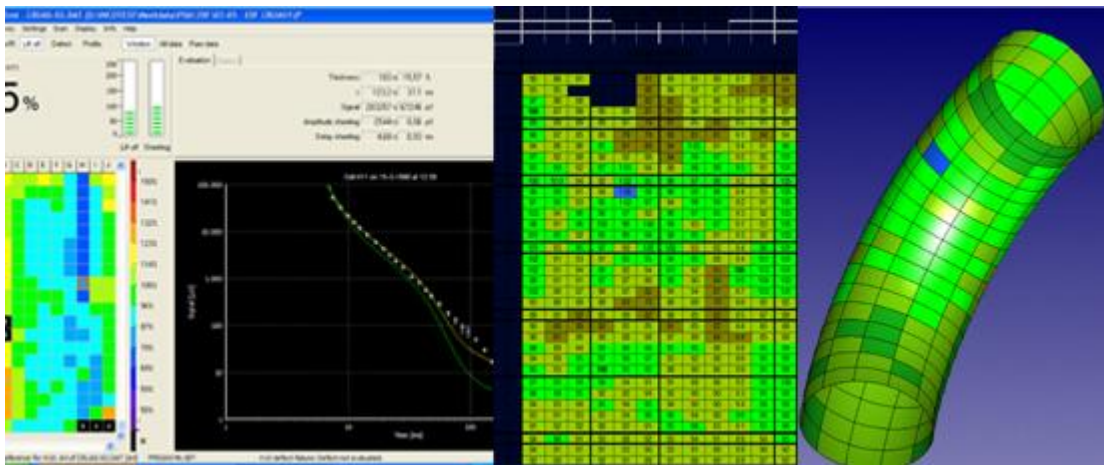


## Advantages:

- Measurements can be performed when plant is in service
- Fast, up to 1000 measurements a day is possible
- System can work on batteries or a net power
- System is ruggedized and can handle tough conditions

## System Performance:

- Wall thickness: 3-65 mm
- Insulation thickness: up to 200 mm
- Operation temp.: -150°C to +500°C
- Accuracy:  $\pm 5\%$
- Repeatability:  $\pm 2\%$
- Duration of one measurement: 4-10 seconds





Inspection & Engineering Services

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