

SLOFEC™ Inspection Technique for Pipeline and Storage Tanks

Our Solution

The SLOFEC™ inspection technique uses the magnetic based eddy current principle. By Superimposed DC-magnetization the depth of penetration is increased so that the corrosion attack (metal loss) can be detected from the top surface. The technology is an inspection method for detection of surface and subsurface corrosion in thin and thick-walled plates.

Due to its unique properties, SLOFEC™ can inspect through coatings of up to 10mm thickness, cope with wall-thicknesses of up to 30-35 mm and distinguish top from bottom corrosion. Pitting on the top side does not prevent the detection of corrosion on the bottom side. In addition to being an alternative to MFL inspection tools, the system is capable of complete mapping of the tank shell, floor and also vessels and pipelines.

Pipe scanners are designed for different wall thickness ranges and diameters. The Pipe scanners are used on the exterior of the pipes.

A vast range of materials and dimensions can be tested using SLOFEC™.

Benefits

- ✓ Fast screening method for local metal loss
- ✓ Inspection of thick wall components (up to 35mm)
- ✓ Inspection through thick coating (up to 10mm)
- ✓ Higher defect detection sensitivity than Magnetic Flux Leakage (MFL)
- ✓ Distinction between topside and bottom defects
- ✓ No or little object preparation prior to the inspection
- ✓ Provides clear colour-based mapping of the extent of damage in user-friendly reports.



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