Automated NACE Spindle **Corrosion Reader - CT10**



- Quick, accurate and objective rating
- Proven correlation with visual rating
- Automatic specimen diameter verification
- **Compact design, robust construction**
- **Every test is fully documented and traceable**

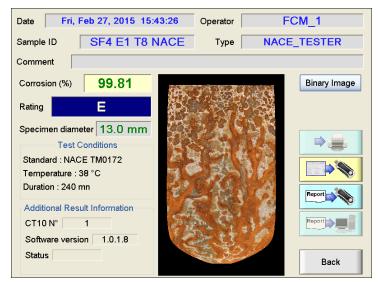
Methods: NACE TM0172 ASTM D665, D7548 **IP 135 ISO 7120 JIS K2510**

is

The corrosivity of petroleum products (gasoline and other distillates) must be

determined before transportation through pipelines in order to control internal the corrosion of pipelines. The NACE TM01721 test for "Determining Corrosive Properties of Cargoes in Petroleum Product Pipelines" is considered a reference test and the most widely used laboratory test for this purpose.

The CT10 strictly follows the test method removing the subjectivity inherent to the



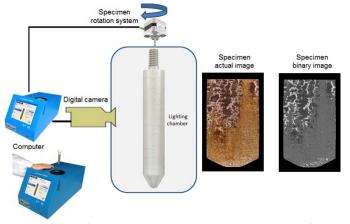
manual test and significantly improving repeatability and reproducibility with a final evaluation which eliminates disputes between the shipper and receiver of the product.



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Principle

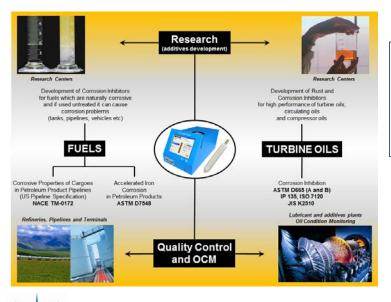
A new instrumental approach for measurement of corroded surface area has been developed by AD Systems in which the exact percentage of corroded area is accurately determined by an automatic instrument reducing test subjectivity. The innovative CT10 instrument images the whole surface of the specimen. Operation is based on a homogeneous lighting source, CCD camera, specimen rotation system, and specially designed Windows CE[®] application software. The test can now be run unattended which reduces labor costs.



The CT10 performs an objective and accurate rating of the test specimen

Operation

The CT10 test is simple and straightforward. The specimen is prepared according to the NACE TM0172 test procedure and is placed in the test chamber of the CT10. The operator enters sample information, using an intuitive graphical interface with touch screen panel, and starts a specimen scan. Specific light is emitted onto the surface of the specimen. Thespecimen is rotated and several images are taken. The software builds a flat image of the specimen surface, calculates the percentage of thecorroded area and then translates it into a NACE rating. A detailed test report is ready in less than 5 minutes.



| Ordering information Description | |
|--|---|
| AA230-001 | CT 10 – Corrosion Reader Delivered ready for operation |
| Technical specifications Description | |
| Test method | NACE TM0172, ASTM D665, D7548, IP 135, ISO 7120, JIS K2510 |
| Corrosion range | In percentage: 0.00% to 100.00% Or according to test method: A, B++, B+, B, C, D, and E |
| Resolution | 0.01% |
| Interface | 8' full-color touch screen |
| Image Size and resolution | 1,600,000 pixels 510 PPI |
| Language | English, French, Russian |
| Results storage | Database (8 GB), USB stick, LAN |
| Communication | 2 x USB 2.0, Ethernet port |
| Printing | Graphic printer (optional) |
| Weight | 10 kg |
| Operation and storage conditions | |
| Operation temperature and humidity range | +15° to +30°C Humidity: 10 to 65% RHL, no condensation |
| Storage temperature and humidity range | -20° to +50°C Humidity: 5 to 95% RHL, no condensation |
| Power supply | 100 - 230 V; 50/60 Hz |
| Power consumption | 50 W |

Description

Ordering information

We reserve the right to alter specifications without notification





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