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Cortec[®] Laboratories Continues to be a Leader in ISO/IEC 17025 Accredited Testing Services

In 2010, Cortec® Laboratories set itself apart as an important industry leader by achieving ISO/IEC 17025 laboratory testing accreditation, a standard that is internationally recognized as a confirmation of competence and reliability in testing services.

This year was another milestone, as Cortec® Laboratories added to its scope of accreditation by becoming officially certified to perform NACE TM 0208-2018 VIA testing. This test is an important industry standard set forth by NACE International, a non-profit professional organization and self-proclaimed "Worldwide Corrosion Authority." The test examines the ability of corrosion inhibitors to protect metals in the vapor-phase when not

in direct contact with the metal surface in an enclosed space.

Cortec® Laboratories continues to be accredited to perform ASTM G180 testing, another noteworthy test that is significant as the only "quick" ASTM evaluation tool for concrete admixtures used as corrosion inhibitors against chloride attack on steel reinforcement. Cortec® Laboratories stands out as the only laboratory in the industry that has this accreditation.

In July, Cortec® Laboratories was once again recertified for ISO/IEC 17025 accreditation, which covers a broad range of

19 tests including humidity, salt fog, immersion, electrochemical polarization, and other testing relevant to Cortec's expertise and customer needs for corrosion solutions. View the entire scope of accreditation here: https://www.corteclaboratories.com/wp-content/uploads/2019/10/Draft-17025-Cert-Supp-Page1... pdf



NACE TM 0208-2018 VIA testing in action



New high-tech lab equipment for generating the air required for ASTM G180 testing



ASTM G180 testing in action



STANDARDS

Lab News

Laboratory Testing Forms Basis for Materials Performance Supplement Articles

Numerous tests are constantly in progress at Cortec® Laboratories. Some of these tests are performed specifically for customers, while other test results make their way into white papers presented at NACE International's annual CORROSION conference. This year, Cortec's June 2019 Supplement to Materials Performance magazine included several articles based on NACE CORROSION white papers, some of which in turn included research data from testing performed at Cortec® Laboratories. Below are links to two articles for further reading!

VOLATILE CORROSION INHIBITORS

Corrosion Protection in an Oil System with Water Ingress by Use of Volatile Corrosion **Inhibitors**

"Corrosion Protection in an Oil System with Water Ingress by Use of Volatile Corrosion Inhibitors'

This article covers results of testing done to show how certain VCIs can provide corrosion protection in both the oil-phase and waterphase when water contamination occurs in oil

"The Use of VCIs in Conjunction with or Replacement of Traditional Corrosion Inhibitors'

This article examines the use of various corrosion inhibitor combinations in designing protective coatings that replace or enhance older technology.

VAPOR PHASE CORROSION INHIBITORS

The Use of VCIs in Conjunction with or Replacement of Traditional Corrosion Inhibitors

Important Cortec® Technical Paper Published in Materials Performance: "New Corrosion Inhibitor for Steam-Generating Boilers"

Another important Cortec® technical paper published in the November 2019 issue of Materials Performance shares an in-depth study on Cortec's VCI technology alternative to hydrazine. Hydrazine is a genotoxic carcinogen that has been used as an oxygen scavenger in steam-generating systems but is being recommended to be replaced by safer chemicals. This paper describes how VCIs were able to reduce corrosion rates in boiling water and a steam closed loop system. Contact Cortec® to learn more about the cutting edge VCI technology behind this study: https://www.corteclaboratories.com/contact-us/!



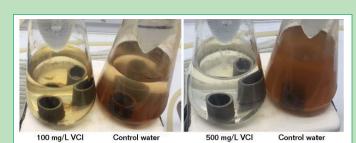
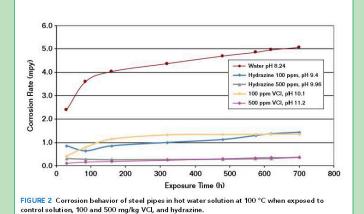


FIGURE 1 Corrosion behavior of the steel pipe samples in boiling water. Corrosion rate decreased to 1.36 mpy with 100 and 500 mg/L VCI addition (700 h).



Lab News

PRODUCT NEWS

Thanks to the hard work of R&D, Cortec® was recently able to release a new improved version of VpCl®-369, one of Cortec's most popular and effective products for corrosion protection. The improved VpCl®-369 has the same appearance as the previous version, but with the following added benefits:

- Provides improved corrosion protection
- Provides improved protection for galvanized steel and other non-ferrous metals
- · Has a lower odor, making application in enclosed areas even easier
- · Fully conforms with all REACH requirements

Learn more here: https://www.cortecvci.com/whats_new/announcements/VpCl-369-PR.pdf

This fall, Cortec® was also pleased to officially release EcoLine® Rail Curve Grease, Winter just in time for cold weather in the Northern Hemisphere. EcoLine® Rail Curve Grease, Winter can be used between 0 °F and 100 °F (-17 °C and 37 °C). The grease is designed to reduce friction and wheel and rail wear while using biobased, biodegradable material. EcoLine® Rail Curve Grease, Winter contains 80% USDA certified biobased content and offers better gauge face coefficient of friction than most petroleum-based grease.

Learn more here: https://www.cortecvci.com/whats_new/announcements/EcoLine-Rail-Curve-Grease-PR-09.pdf

Even earlier this year, Cortec® announced the successful reformulation of MCI® POWR 100 to meet the demands of an ever-changing regulatory landscape. MCI® POWR 100 is a powerful three-in-one concrete surface treatment for water repellency, oil/stain resistance, and corrosion protection. The product underwent multiple tests to demonstrate that it still delivered the required water, oil, and stain resistance characteristics, while performing competitively and sometimes superior to a traditional silane sealer in water and oil repellency traits.

Learn more here: https://www.cortecvci.com/whats_new/announcements/MCI_POWR_100_PR.pdf

Stay tuned for forthcoming news on other new and improved product offerings from Cortec® R&D!













