



4119 White Bear Parkway, St. Paul, MN 55110 USA
 Phone (651) 429-1100, Fax (651) 429-1122
 Toll Free (800) 4-CORTEC, E-mail info@corotecvci.com
 Internet http://www.corotecvci.com

Evaluation of Corrosion Inhibition Offered to Cast Iron by Cortec VpCI-126 Film

Background: The Customer submitted cast iron parts and Daubert Nox-Rust Vapor Wrapper to Cortec Corporation. An evaluation and comparison involving Cortec VpCI-126 film is sought. Currently, the customer is using a non-corrosion inhibiting plastic film with a sheet of Daubert Nox-Rust Vapor Wrapper enclosed within.

Purpose: Evaluate and compare the protection offered by Cortec VpCI-126 film on the submitted cast iron parts.

Method: ASTM D 1748-83 (120 deg F, ~ 100% R.H.)

Materials: Cast Iron Parts (3 total)
 Daubert Nox-Rust Vapor Wrapper
 Cortec VpCI-126 film

Procedure: The above tests were performed according to standard procedures for each.

Results:

Material	Time until corrosion
Low density polyethylene film, 6" x 6" Daubert Nox-Rust Vapor Wrapper, 4 mil	2 days, 9hours < x < or equal to 4 days
Cortec VpCI-126 film, 4 mil	4 days < x < or equal to 7
Low density polyethylene film (Control)	2 days, 9hours < x < or equal to 4 days

x = Material Pictures Enclosed

Note: Cast Iron parts were conditioned in their respective packages, for 1.5 hours, before inserting into the extreme conditions of the environmental chamber.

Conclusion: Cast Iron part enclosed within Cortec VpCI-126 film, provided roughly twice as much as corrosion inhibition, as cast iron part enclosed within low density polyethylene bag/Daubert Nox-Rust Vapor Wrapper. Addition of Daubert Nox-Rust Vapor Wrapper to the plain polyethylene doesn't increased protection properties of the last one.





Control



Control



Daubert



Daubert



VpCI-126



VpCI-126