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**Competitive Analysis Zerust Vapor Capsule VC2-1**

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**Results Reported By:**



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**Background:**

Evaluate the corrosion inhibition properties of a Zerust Vapor Capsule VC2-1 of unknown age.

**Sample Received:**

Zerust Vapor Capsule VC2-1

**Method:**

- NACE TM0208-2024, Laboratory Test to Evaluate the Vapor-Inhibiting Ability of Volatile Corrosion Inhibitor Materials for Temporary Protection of Ferrous Metal Surfaces

**Materials:**

- CA-CHQ-214 Thermometer (1035486)
- Scale calibrated to 0.1g (1128432023)
- VIA test kit (testing jars with lid apparatus, steel plugs (#13099), 240 and 400 grit sandpaper)
- Glycerol (lot #Z01I006)
- Hot Plate (153012)
- 2000 mL Glass Beaker
- Methanol, ACS grade (lot #23J0361009)
- DI water

**Procedure:**

All of the VCI resin beads from the Zerust Vapor Capsule were removed and counted. The capsule was found to contain ~260 beads. The capsule is expected to protect a volume of 2 cubic feet (56.6 liters). The amount of beads was divided by 56.6 to determine the amount of beads needed to protect the 1L size VIA test jar. The number was found to be 4.59 beads per jar. This number was rounded to 5 beads (~0.16g) for this test.

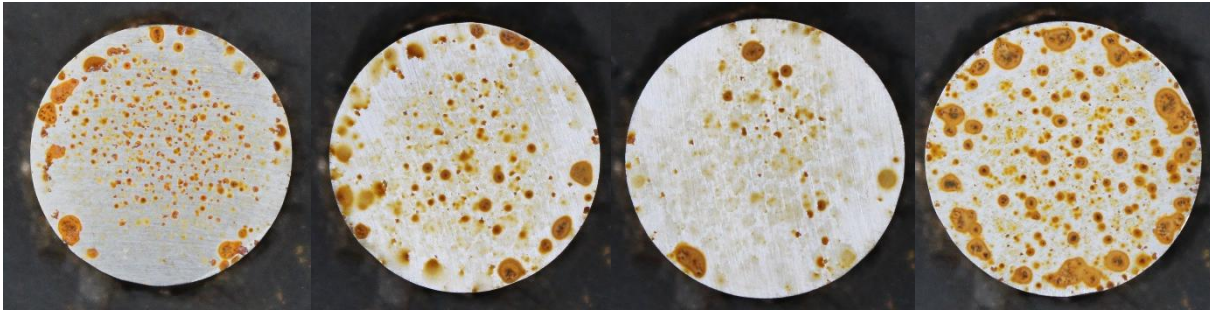
Standard procedure was followed.

**Results:**

Results relate only to the items tested.

**Table 1:** NACE VIA results for Zerust Vapor Capsule VC2-1

Sample	Plug #1	Plug #2	Plug #3	End Result
Zerust Vapor Capsule VC2-1	Grade 0	Grade 0	Grade 0	Fail
Control	Grade 0	--	--	Fail



**Figure 1:** NACE VIA Test Plugs #1, #2, #3 (left), and control (right)

**Interpretations:**

The Zerust Vapor Capsule VC2-1 did not provide enough corrosion protection to pass NACE VIA when used at the recommended dosage.