

# QC 2326 Inhibitor

Corrosion Inhibitor  
*Technical Data*

## GENERAL DESCRIPTION

**QC 2326 Inhibitor** is a highly effective, non-barium corrosion inhibitor. **QC 2326 Inhibitor** is a brown liquid with a combination of corrosion inhibitors and emulsifiers in an oil base. **QC 2326 Inhibitor** when added to water may be used as an immersion rust proofing liquid emulsion that will provide excellent humidity cabinet and salt spray protection.

## NORMAL USE

**QC 2326 Inhibitor** is used at 5% to 20% by volume in water (10% to 20% is typical). This product can be used from temperatures ranging from ambient to 140° F.

## ADVANTAGES

1. Superior corrosion protection over a broad range of concentrations.
2. Good hard water stability.
3. Low cost product tailored to performance requirements.
4. Can be mixed with water which avoids fire hazards associated with other oil coatings (solvent based).
5. Will not build up in threads and recessed areas.
6. Can be applied to zinc phosphate parts as well as bare ferrous alloys.

## PERFORMANCE

**Humidity Cabinet (ASTM D-1748)** – Polished cold rolled steel panels.

<u>Percent QC 2326 Inhibitor in Water</u>	<u>Days to Fail</u>
10%	35
15%	55
20%	60+

**5% Salt (Federal Standard 791b Method 4001.2)** – Sand blasted and polished cold rolled steel panels.

<u>Percent QC 2326 Inhibitor in Water</u>	<u>Hours to Fail</u>
10%	24
15%	40
20%	60

## SOLUTION MAKE-UP

Fill tank to 50% with water. Slowly add **QC 2326 Inhibitor** while agitating. Mix at least 5 minutes after addition has been made. Fill tank to operating level while continuing agitation. Heat tank to operating temperature.

## NORMAL CONTROL

**Dropping Bottle Method** (Test Kit available from Chautauqua Chemicals Co. – Part No: 4195)

1. Take a sample of the **QC 2326 Inhibitor** solution from the bath with a beaker and allow to cool to room temperature.
2. Measure out 10 mL using the graduated sample bottle provided in the test kit.
3. Add 3 drops of Total Alkalinity Indicator.
4. Add dropwise 0.12N sulfuric acid while counting the drops and swirling the solution.
5. Stop adding drops when color changes from blue to red.
6. Calculation: Percent Concentration of **QC 2326 Inhibitor** = Drops of 0.12N H<sub>2</sub>SO<sub>4</sub> x 0.83

**Analytical Method** (Equipment available from Chautauqua Chemicals Co.)

1. Pipette a 10 mL sample into a 100 mL Erlenmeyer flask and allow to cool to room temperature.
2. Add 3-5 drops of Bromocresol Green-Methyl Red (aqueous).
3. Titrate with 0.05N hydrochloric acid until color changes completely from blue to red (pH = 4.3).
4. Calculation: Percent Concentration of **QC 2326 Inhibitor** = Volume (mL) of 0.05N HCl x 6.688

**Refractometer** (Available from Chautauqua Chemicals Co.)

Calculation: Percent Concentration of **QC 2326 Inhibitor** = Refractometer Reading x 1.017

## HANDLING AND SAFETY CONSIDERATIONS

Avoid contact with eyes and skin. Wear proper protective equipment.

Consult Safety Data Sheet for handling considerations, hazard information, and first aid procedures.

## OTHER INFORMATION

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