

## DESCRIPTION

AMERZINE corrosion inhibitor is an all-volatile, liquid, catalyzed oxygen scavenger for use in low-, medium- and high-pressure steam generating systems. AMERZINE corrosion inhibitor controls ferrous and non-ferrous corrosion in feedwater, boilers, steam, and condensate lines with the use of hydrazine as the oxygen scavenger.

In addition to scavenging oxygen, AMERZINE corrosion inhibitor passivates metal surfaces through the formation of protective oxide films thereby minimizing iron and copper deposits in the boiler.

AMERZINE corrosion inhibitor may be used with DREWPLEX® AT boiler water treatment, standard treatment for low-pressure steam generating systems (0-32 bar), standard treatment for medium-pressure steam propulsion vessels (32-60 bar), and our ULTRAMARINE™ boiler water treatment program for high-pressure steam generating systems (60-84 bar).

## APPLICATION & USE

### Dosage, Testing and Control

The continuous dosage of AMERZINE corrosion inhibitor will depend upon the amount of dissolved oxygen in the feedwater. The colder the feedwater, the more dissolved oxygen there will be. Keep the feedwater temperature as close to 90°C, or higher, if possible. For starting up a new system, an estimated initial dosage of AMERZINE corrosion inhibitor is 0.15 liters per ton of boiler water in the system. Daily testing of hydrazine in the boiler water using the AMERZINE ampoule test kit determines the necessary dosage to maintain the concentration within the specified control range. If the system has been poorly passivated, the initial system “demand” for AMERZINE corrosion inhibitor may require a higher dosage for the first few weeks until the system comes to stabilization.

Slug dosing and/or improper control of the hydrazine concentration will not provide adequate protection of the boiler system and may lead to accumulation of ammonia in the condensate with possible corrosion of copper alloy tubes.

### Feed Points

For low-pressure steam generating systems, when there is feedwater recirculation, dose AMERZINE corrosion inhibitor continuously after the feedwater recirculation offtake. Diluted AMERZINE corrosion inhibitor may be fed with diluted

DREWPLEX AT boiler water treatment using the DREW™ Beta Metering System. For low-pressure steam generating systems using AMERZINE standard treatment, continuously dose diluted AMERZINE corrosion inhibitor with diluted SLCC-A™ corrosion inhibitor using the DREW Beta Metering System to the feedwater line downstream of the feedwater recirculation offtake. If there is no feedwater recirculation, dose continuously to the feed pump suction.

If a gravity feed flowmeter arrangement is used, the dosage point should be to the feed or cascade tank. The chemical feed line should extend at least one (1) meter below the water surface to avoid volatilization of the product. For steam systems with deaerators, AMERZINE corrosion inhibitor should be continuously dosed by pump to the storage section of the deaerator or to the feed pump suction.

**Lay-up:** AMERZINE corrosion inhibitor can also provide protection for boilers during wet lay-up. For details, consult your Drew Marine representative.

## TYPICAL PROPERTIES

Appearance:	Clear, yellow liquid
Odor:	Mildly ammoniacal
pH:	11.0
Specific Gravity @ 25°C:	1.0
Boiling Point:	100°C
Flash Point (PMCC):	None
Freeze Point:	-13.8°C

**NOTE:** Always wear the appropriate personal protective equipment when using this product.

## PACKAGING

AMERZINE corrosion inhibitor is available in 25-liter containers (PCN 0005406).

## IMPORTANT INFORMATION

Drew Marine maintains Safety Data Sheets on all of its products. Safety Data Sheets contain health and safety information for your development of appropriate product handling procedures to protect your employees.

Our Safety Data Sheets should be read and understood by all of your supervisory personnel and employees before using Drew Marine products.



Contact your Drew Marine representative for more information



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