



# Isogard

## Corrosion Inhibitor

### Description:

Isogard non-chromated corrosion inhibitor provides protection to multi-metal systems operating at high or low temperatures. It is recommended for hot water heating systems (max. 250°F.) chilled water circuits and other closed systems containing ferrous and nonferrous metals. The Isogard inhibitor is intended for systems requiring minimal makeup.

### Key Properties

- No chromates
- Protects multi-metal systems
- Easy to dispense
- High and low temperature operation
- Compatible with straight (uninhibited) propylene and ethylene glycol

### Authorizations / Approvals

Isogard treatment is compliant with USDA guidelines for use in treating cooling water systems, where the water may not contact edible products.



## Isogard

### Technical Data:

Appearance	Dark blue to purple liquid
Density	9.4 lb./gal (1.13 kg/L)
Flash Point	None
Freezing Point	5°F (Note storage instructions.)
Odor	None
pH (1% solution)	11.3

### Use Instructions:

Normal dosage is 1 gallon per 100 gallons of system water. Bring the initial charge to 1500 ppm of nitrite, as determined with the 409229, 409227 or 409231 Test Kits. Titrate daily (recording results) for first four days after installing Isogard treatment to ensure against loss due to undisclosed leaks. Maintain nitrite level at 1200 ppm or higher. Water containing more than 150 ppm of chlorides or sulfates or more than 300 ppm of hardness will require at least 1500 of nitrite. If hardness significantly exceeds 300 ppm, and if aluminum protection is not required, a better product selection would be Isogard Plus NT.

In special circumstances the product level can be maintained as low as 700 ppm. Running a system at this reduced level may prevent damage to some seal materials. Isogard should not be run at this reduced level without the use of corrosion coupons to verify adequate system protection.

Note: If nitrite value is difficult to maintain over time, consult a DuBois Water Treatment Specialist.

### Dispensing:

The Isogard product is added to closed system recirculating water by pumping directly from its shipping container or by means of a bypass feeder. Most systems require very small and infrequent additions of the Isogard product. Since water makeup is minimal, automatic feeding is impractical. See your DuBois Representative for specific equipment recommendations for your system.

### Test Method:

Use the the 409229, 409227 or 409231 Test Kits to determine nitrite level. In the 409227 Test Kit, for a 5 ml sample size, each drop of CAN solution equals 40 ppm nitrite as sodium nitrite.

### Product Compatibility:

Isogard, at normal use concentration, is safe on all metals normally used in closed chilled and hot water systems. However, it is suggested that Teflon seals will give best results in systems treated with Isogard at the recommended use concentrations of 1200 to 1500 ppm sodium nitrite. Concentrated Isogard taken directly from the drum should not be used on copper, brass or aluminum.

### Safe Handling and Storage

#### Instructions:

Avoid freezing. If frozen, thaw and thoroughly remix. Do not mix by bubbling air through the Isogard product.

#### Precautions:

KEEP OUT OF REACH OF CHILDREN.

Please refer to the label and material Safety Data information for all warnings, recommendations for safety equipment, and other regulatory information. Copies of the material safety Data information can be ordered by calling 800.438.2647.

#### Disposal:

DuBois offers full service disposal and compliance consultation, backed by a full range of treatment chemicals. Detailed information is available from your DuBois Representative.