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## 6202 BOILER WATER TREATMENT LOW PRESSURE

### APPLICATION

Oxygen attack on heat-transfer surfaces is a common contribution of metal-loss from low-pressure boilers. The loss of metal creates pits that rupture causing a loss of water and energy. If enough metal has been removed by oxygen corrosion, the entire boiler may be rendered unsafe to operate. This requires expensive replacement. Heating boiler replacement may be inconvenient if replacement is required during the heating season.

Protection from oxygen corrosion can be achieved by causing a protective chemical film to form on boiler metal surfaces. Films such as this at one molecule thick are known to succeed in mitigating oxygen attack on underlying metal. Some film-forming materials work specifically to protect iron alloys, while others work to protect copper alloys. The formations of such monomolecular films occur regardless of the water-oxygen content.

Product **6202** uses a blend of sodium hydroxide, nitrite, and borate for basic iron-protective- film formation. Yellow metal alloys are protected by a chemi-sorbent organic compound. This combination gives excellent performance in difficult systems. Selection of this product requires a high percentage condensate return rate.

### SAFETY & HANDLING PROCEDURE

This product is a moderately alkaline material. It can be safely handled using the standard precautionary measures associated with handling industrial chemicals of this type.

### DOSAGE

Charge the system at the rate of 1.5 gallons per 100 gallons of boiler water. Reduce maintenance dose rate with respect to cycles of concentration being maintained in system.

### FEEDING TECHNIQUE

Inject directly into the system or add via a bypass feeder. It can also be added to a chemical feed tank.

### CONTROL

Maintain a residual of 1,200 to 1,400 parts per million as sodium nitrite (NaNO<sub>2</sub>), using CH<sub>2</sub>O's **LNT-40** test kit. Consult your CH<sub>2</sub>O water treatment specialist for further information on testing. Daily testing is recommended to maintain proper control. Failure to monitor and maintain treatment levels can cause damage. In addition to monitoring and maintaining treatment levels, it is the customer's responsibility to ensure the product is fit for its intended application.

### PHYSICAL PROPERTIES

pH of 1% Solution..... 11-12.5  
Pounds per Gallon..... 9.7-10.2  
Physical Appearance..... Dark Brown Liquid  
Odor..... Mild  
Flash Point..... NA

#### **Seller Warranty**

CH<sub>2</sub>O brand test reagent refills are available through your sales representative at no charge. Customers are required to confirm product compatibility via a control test for their specific application. CH<sub>2</sub>O recommends that you perform regular/daily testing to control chemical levels and cycles of concentration within established limits. Additional tests may be performed at your request. Test reports reflect conditions at the point when the analysis was performed. Results will change over time and with varying operating conditions.

Seller warrants that this product conforms to its chemical description and is reasonably fit for the purpose referred to in the product data sheet. Buyer is responsible to ensure that products and product dosages are appropriate for Buyer's particular application. Seller makes no other warranty or representation of any kind, express or implied, concerning the product, including NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS OF THE GOODS FOR ANY OTHER PARTICULAR PURPOSE. No such warranties shall be implied by law and no agent of seller is authorized to alter this warranty in any way except in writing with a specific reference to this warranty. The exclusive remedy against seller shall be a claim for damages not to exceed the purchase price of the product, without regard to whether such a claim is based upon breach of warranty or tort. Jurisdiction for any issues arising from or relating to this product shall be in the courts of the State of Washington and the venue shall be Thurston County. Any controversy or claim arising out of or relating to this contract, or breach thereof, shall be settled by arbitration in accordance with the rules and procedures as stated in RCW 7.06 and shall be binding upon both parties without right to appeal, and judgment upon the award rendered by the Arbitrator(s) may be entered in any court having jurisdiction thereof.

Applies to all products sold by CH<sub>2</sub>O, Inc., and is hereby communicated to all of its customers as a condition of sale. Use of CH<sub>2</sub>O products is subject to the Standard Terms and Conditions as listed on CH<sub>2</sub>O, Inc.'s website at: [www.ch2o.com](http://www.ch2o.com).



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