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# 6717 HYBAR BOILER WATER TREATMENT EXCESS PHOSPHATE METHOD

**APPLICATION**

Natural water contains gasses and minerals that can cause corrosion and deposit formation in steam boiler systems. This leads to loss of efficiency and damage from leakage or overheating. CH<sub>2</sub>O Boiler Treatment Products are designed to reduce many of the inherent problems associated with steam boiler applications.

Although no chemical product can completely eliminate water-related problems, results are dependent on several factors including maintaining proper chemical residuals, system operation, design, cleanliness, metallurgy, and water quality. For optimal results the following actions should be taken by qualified operational personnel:

- initial system cleaning and passivation;
- maintaining feedwater free of contaminants and particulate matter;
- insuring proper chemical feed rates and system blowdowns;
- verifying proper operation of chemical control and pretreatment equipment; and
- daily testing and recording of chemical residuals.

If problems are encountered maintaining product residuals, additional analytical testing may be required. At your request a CH<sub>2</sub>O water treatment specialist may assist in performing these services.

Product **6717** is formulated to comply with FDA food plant requirements. It is suited for a wide array of feedwater conditions when mineral precipitation is the preferred scale control program.

Product **6717** is formulated to meet the demands of moderate to high-pressure boiler systems when an excess phosphate program is indicated.

When heated in the boiler, orthophosphate is available to react with minerals and form an insoluble precipitate. Adjunct materials are incorporated in the formula to aid in dispersion.

**SAFETY & HANDLING PROCEDURE**

Product **6717** is an alkaline material. Impervious gloves and safety glasses or goggles are required when handling. Consult the MSDS for this product for further safety and handling information.

**FEEDING TECHNIQUE**

Inject directly into the feedwater line, makeup water line, or boiler.

**CONTROL**

Maintain a residual of 30 to 60 parts per million of orthophosphate in the system at all times. Contact your CH<sub>2</sub>O Water Treatment Specialist for further information on analytical testing. Daily testing is recommended to maintain proper control. Failure to monitor and maintain treatment levels can cause damage. It is the customer's responsibility to monitor and maintain treatment levels.

**DOSAGE**

Initially charge the system at 16-20 ounces per 1,000 gallons to be treated. Maintain the system treatment levels by dividing initial dose rate by system cycles of concentration to achieve ounces per 1,000 gallons of make-up to the system.

**PHYSICAL PROPERTIES**

pH of 1% Solution .....	6.6-8.5
Pounds per Gallon .....	9.8-10.3
Physical Appearance .....	Light Tan Liquid
Odor .....	Non-descriptive
Flash Point .....	N/A

**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 directions for use when used in accordance with the directions under normal conditions. Buyer assumes the risk of any use contrary to such directions. 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).

