



**CORTEC**  
CORPORATION

Environmentally Safe VpCI®/MCI® Technologies



## Boiler Dragon™

Boiler Dragon

### DESCRIPTION

Cortec's Boiler Dragon™ is a ready-to-use waterborne multi-metal Vapor phase Corrosion Inhibiting (VpCI®) fogging fluid designed for use in the dry layup of large boilers and steam components for short- and long-term preservation. The unique vapor-phase properties of the VpCI® molecules provide continuous protection throughout the boiler spaces when properly applied. Direct application to every metal surface is not required. Boiler Dragon™ is a safer and/or more effective alternative to traditional boiler dry layup options such as desiccants, quicklime, or nitrogen blankets. Boiler systems preserved by the Boiler Dragon™ can be returned to service quickly by simply filling the boiler with makeup water. There is no need for product removal or flushing.

A ferrous-only version, Boiler Dragon™ FO, is also available.

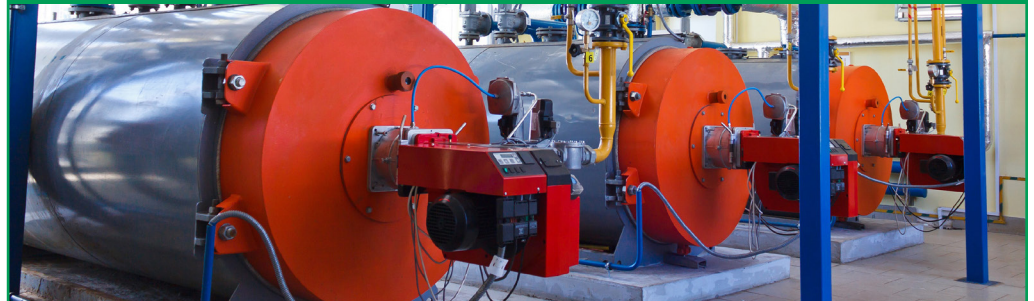
### PACKAGING & STORAGE

Boiler Dragon™ is available in 5-gallon (19 L) pails, 55-gallon (208 L) drums, liquid totes, and bulk.

To ensure best product performance, store in original packaging, indoors, and out of direct sunlight at 40-100 °F (4-38 °C).

Shelf life: 2 years

### VpCI® ADDITIVES FOR WATER TREATMENT



### FEATURES

- No heavy metals, halogens, or solvents
- No typical detrimental elements prohibited in nuclear industry
- Nitrite-free
- Silicon-free
- Low odor
- Readily water soluble
- Does not form solid residue
- pH neutral
- Non-flammable
- Freeze-thaw stable

### BENEFITS

- Multi-metal corrosion protection
- Vapor-phase protection of inaccessible and recessed surfaces
- Easy to apply
- No need to remove

### METALS PROTECTED

- Carbon Steel
- Stainless Steel
- Galvanized Steel
- Cast Iron
- Aluminum and Alloys
- Copper and Alloys (not applicable to Boiler Dragon™ FO)

# Boiler Dragon™

## TYPICAL PROPERTIES

Appearance	Clear liquid
Density	8.4-8.6 lb/gal (1.00-1.03 kg/L)
pH	7.1-7.5 (Neat)
Freeze Point	14 °F (-10 °C)
Odor	Slight

## APPLICATION

Boiler Dragon™ liquid should be applied by spraying or fogging into the equipment interior. Recommended dosage rate is 0.7-1.0 fluid ounce per cubic foot (0.7-1.0 L/m<sup>3</sup>). One gallon of Boiler Dragon™ liquid will treat approximately 1,000 gallons (1 L/1 m<sup>3</sup>) of boiler volume.

4119 White Bear Parkway, St. Paul, MN 55110 USA  
Phone (651) 429-1100, Fax (651) 429-1122  
Toll Free (800) 4-CORTEC  
productinfo@cortecvci.com  
<https://www.cortecvci.com>  
<https://www.cortecwatertreatment.com>



### LIMITED WARRANTY

All statements, technical information and recommendations contained herein are based on tests Cortec® Corporation believes to be reliable, but the accuracy or completeness thereof is not guaranteed.

Cortec® Corporation warrants Cortec® products will be free from defects when shipped to customer. Cortec® Corporation's obligation under this warranty shall be limited to replacement of product that proves to be defective. To obtain replacement product under this warranty, the customer must notify Cortec® Corporation of the claimed defect within six months after shipment of product to customer. All freight charges for replacement products shall be paid by customer.

Cortec® Corporation shall have no liability for any injury, loss or damage arising out of the use of or the inability to use the products.

**BEFORE USING, USER SHALL DETERMINE THE SUITABILITY OF THE PRODUCT FOR ITS INTENDED USE, AND USER ASSUMES ALL RISK AND LIABILITY WHATSOEVER IN CONNECTION THEREWITH.** No representation or recommendation not contained herein shall have any force or effect unless in a written document signed by an officer of Cortec® Corporation.

**THE FOREGOING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE. IN NO CASE SHALL CORTEC® CORPORATION BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.**