



**CORTEC**  
CORPORATION

Environmentally Safe VpCI®/MCI® Technologies

## Boiler Egg™



### DESCRIPTION

Cortec's Boiler Egg™ is designed to scavenge oxygen and passivate metal during the initial filling of makeup water after seasonal or long-term dry layup of boilers. The Boiler Egg™ comes in an easy-to-handle pouch that is readily dissolved upon water contact, releasing the active ingredients as the boiler is being filled. It protects against the threat of oxygen pitting during the critical startup phase of a boiler when the makeup water is normally not pre-heated and the operating chemical program has not yet been implemented.

The Boiler Egg™ can be used in conjunction with the Boiler Lizard® as a complete preservation kit for dry layup of boilers, or it can be used on its own for applications where oxygen scavenging and metal passivation are needed during the equipment startup phase.

### PACKAGING & STORAGE

The Boiler Egg™ is available in carton tubes (one bag per tube).

Tube - 3" D x 37" L (8 cm x 94 cm)  
Bag - 4" W x 34" L (10 cm x 86 cm)

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

- Readily water soluble
- pH neutral
- Non-hazardous by OSHA Standard (OSHA 29 CFT 1910.1200)
- Biodegradable

### BENEFITS

- Protects against oxygen pitting at boiler startup
- Effectively scavenges oxygen and passivates metal
- Easy to apply

### TYPICAL PROPERTIES

Appearance	White to off-white powder
pH	5.5-8.0 (5% aqueous solution)
Solubility	1.0 lbs/gal (14 g/100 mL) at 68 °F (20 °C)

### APPLICATION

Apply Boiler Egg™ when preparing a boiler for dry layup or at the beginning of a boiler startup phase. Remove and discard the outer protective water-insoluble bag and place the Boiler Egg™ into the boiler component, but do not slice the inner Boiler Egg™ bag open. For firetube boilers, place Boiler Egg™ at the lowest point possible to allow quicker reaction during filling. For watertube boilers, place Boiler Egg™ in steam drum below the feedwater line to allow for faster reaction time. Seal all openings to the boiler internals.

No product or inner bag removal is required prior to boiler startup. When the boiler is put back in service, fill with water and employ common startup procedure. The PVA bag will dissolve as the boiler is filled. The contents of Boiler Egg™ will be released

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and incorporated into makeup water as the boiler fills. The Boiler Egg™ is designed to treat 1,000 gallons (3,800 L) of makeup water during the refilling process.

When used in conjunction with the Boiler Lizard® (as in the two-part Boiler Lizard® Plus kit), just place the Boiler Egg™ inside the boiler next to the Boiler Lizard® to implement a complete boiler dry layup preservation and startup program. The Boiler Egg™ will lie intact and dormant until the boiler is brought back into service, when it will quickly dissolve in the initial makeup water to provide protection until the boiler reaches normal operating conditions.

### **Precautions:**

- Do not use in systems with yellow metals.
- Compatibility with non-metallics should be evaluated.

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### **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.

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