



CORTEC
CORPORATION

Environmentally Safe VpCI®/MCI® Technologies

**Closed Loop
Toad**

Closed Loop Toad® , Patented

DESCRIPTION

Cortec's Closed Loop Toad® is a unique combination of Vapor phase Corrosion Inhibiting (VpCI®) powders packaged in polyvinyl-alcohol (PVA) water-soluble bags. It was developed to provide corrosion protection in recirculating and operating closed loop systems. This product prevents corrosion of metals in the liquid phase, vapor phase, and at the air water interface. The bag dissolves and the VpCI® molecules adsorb onto all metal surfaces, reaching even recessed areas and interior cavities. These corrosion inhibitors form a strong protective molecular layer on the metal. Closed Loop Toad® also contains a blend of organic-based scale inhibitors to prevent scale.

PACKAGING & STORAGE

Closed Loop Toad® is available in four 2.2 lb (1.0 kg) bags per box.

Bag - 10" x 14" (25 cm x 35 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

- Multi-metal corrosion protection
- Effective for a broad range of applications
- Water-soluble powder and bag
- No free amines or nitrite
- Direct contact with metal surfaces not required
- Fully biodegradable, non-irritating PVA bags

BENEFITS

- Protects inaccessible and recessed surfaces
- Protects offline equipment and pipes
- Enables safe and easy hands-off application
- Reduces chemical consumption and cost
- Eliminates environmental hazards and disposal problems

TYPICAL PROPERTIES

Appearance	White Powder
pH	8.5-9.5 (1% aqueous)

APPLICATION

Can be used for

- Protection of recirculating closed loop systems (in operation or offline)
- Layup of a closed loop system
- Layup of fire extinguishing systems
- Hydrostatic testing of pipelines, casings, tanks, and valves

Wet-Dry Layup

Remove and discard outer barrier bag. Add to bypass pot feeder or other accessible point of the system. Four bags treat up to 1,000 gallons (3,800 L or 3.8 m³) of water. After application, all internal surfaces should be covered or closed.

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