



# EcoShield® S-69 IT



## PRODUCT DESCRIPTION

EcoShield S-69 IT is a Vapor phase Corrosion Inhibitor (VpCI®) developed for the water treatment industry. This building block provides corrosion protection for ferrous metals, galvanized steel, aluminum and it's alloys. The VpCIs form a strong monomolecular layer on the metal surface that protects in all three phases- liquid, vapor, and the vapor-liquid interface. EcoShield S-69 IT provides water treatment companies with the ability to incorporate Cortec® VpCI technology into their specific formulations.

The concentration of EcoShield S-69 IT inhibitor in an application can be monitored with UV spectroscopy.

## TYPICAL APPLICATIONS

EcoShield S-69 IT Powder is an anticorrosion additive to water treatment formulations to replace chromates, nitrites, borates, and other types of restricted corrosion inhibitors. Powder should be dissolved prior to addition into the cooling system.

## DOSAGE RATES

- a) Closed loop-fresh water  
Concentration of EcoShield S-69 IT under operating conditions for a closed loop system formulation start at 1500 ppm - 2000 ppm.
- a) Closed loop-brine  
Concentration of EcoShield S-69 IT powder under operating conditions for a closed loop system formulation is 1-5 %.
- c) Open loop-fresh water  
Concentration varies with formulations but can be used a low as 10-15 ppm in continuous feeds.
- d) Open loop-fresh water-passivation  
Concentration of 3000-4000 ppm for 1-2 weeks.

- Protects carbon, stainless, galvanized steels, aluminum, zinc, and other metals
- Prevents corrosion and pitting
- Effective for open and closed loop cooling systems
- Contains contact and vapor phase corrosion inhibitors
- Can be used as a corrosion inhibitor additive in the majority of water treatment programs
- Compatible with the majority of commercially available biocides and antiscalants
- Nitrite, chromate, and heavy metal free
- Readily water-soluble
- Environmentally friendly formula
- Easily traceable with UV spectroscopy

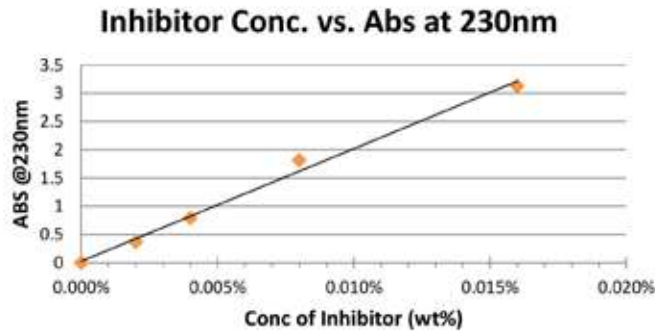
## TYPICAL PROPERTIES

Appearance White to off-white powder  
pH 9.1-9.6 (1% aqueous)

ppm in DI Water	Conductivity
250	~150 µS
1000	~600 µS
2000	~1120 µS

## FEATURES





**PACKAGING AND STORAGE**

EcoShield S-69 IT powders is packaged in 5 lb (2.27 kg) boxes and 50 lb (22.7 kg) and 100 lb (45.3 kg) drums. They should be stored in a tightly closed container. The shelf life is 2 years.

- FOR INDUSTRIAL USE ONLY**
- KEEP OUT OF REACH OF CHILDREN**
- KEEP CONTAINER TIGHTLY CLOSED**
- NOT FOR INTERNAL CONSUMPTION**
- CONSULT SAFETY DATA SHEET FOR MORE INFORMATION**

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