



VpCI® ADDITIVES FOR FORMULATORS

Cooling Loop Gator® Patented VpCI™ Tower Lay-up/Mothballing



PRODUCT DESCRIPTION

Cortec's Cooling Loop Gator is a Vapor phase Corrosion Inhibitor (VpCI) powder packaged in polyvinyl-alcohol (PVA) water-soluble bags. Developed for seasonal, short or long term lay-up, Cooling Loop Gator protects enclosed spaces for up to 12 months. Once the bag and powder dissolve, the VpCIs adsorb on all metal surfaces - reaching even recessed areas and interior cavities. The VpCIs form a strong molecular layer on the metal that protects in the liquid phase and vapor phase.

FEATURES

- Provides excellent corrosion protection during lay-up period
- Can be used as a corrosion inhibitor additive in the majority of water treatment programs
- Provides multimetal protection, including galvanized steel and yellow metals (copper, brass)
- Protects inaccessible and recessed surfaces
- Does not need to be removed prior to start up

- Eliminates environmental hazard and disposal problems
- Safe and easy to handle
- Fully biodegradable, non-toxic and non-irritating
- Effective for wet lay-up and flushing applications
- Reduces chemical consumption and cost upon start up
- Easy to apply
- Increased worker productivity and safety
- Nitrite-, phosphate-, and chromate-free
- Compatible with the majority of commercially available biocides and antiscalants

METHOD OF APPLICATION

One Gator treats up to 250 gallons (0.95 m³) water. Remove and discard outer barrier bag. Add the water-soluble bags directly into cooling water. Recirculate treated water for about 10-12 hours to obtain good protective layer before shutdown. Either drain the water out (flushing lay-up) or leave treated water in cooling tower. After application, all internal surfaces should be covered or closed and valves shut off.

COMPATIBILITY

Cooling Loop Gator is compatible with most materials of construction in cooling towers (e.g. rubbers, polymers, etc.). Cooling Loop Gator is effective in the:

- Presence of non-oxidizing biocides
- Presence of oxidizing biocides*

Please consult a Cortec representative for further information before use with biocides.

*Keep free halogen concentration less than 2 ppm. When using a high concentration level of oxidizing biocides, consult Cortec about dosages.



CORTEC
CORPORATION

Environmentally Safe VpCI®/MCI® Technologies

DIMENSION

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

PHYSICAL PROPERTIES OF POWDER

Appearance White to off-white powder
pH 8.5-9.5 (1% aqueous)

PACKAGING AND STORAGE

Cooling Loop Gator® is available in 4 x 2.2 lb (4 x 1 kg) bags per box. Store in sealed container in a dry and cool warehouse. Do not store in conditions above 150°F (66°C).

EPA/600/4-90/027F

Meets EPA requirements for discharge in freshwater in used concentration.

48-hour Static *D. pulex* and *P. Promelas* Toxicity Test (fresh water):

EE#	Appendix	Sample ID	NOEC/LOEC, ppm	
			<i>D. pulex</i>	<i>P. Promelas</i>
E-17766-01	A	Cooling Loop Gator®	10,000/>10,000	10,000/>10,000

CONDUCTIVITY CHART

Sample	Concentration	Conductivity with DI water	Conductivity with RO water
Gator	250 ppm	~136 µS	~140 µS
Gator	500 ppm	~259 µS	~264 µS
Gator	1000 ppm	~498 µS	~500 µS
DI water	N.A.	~3 µS	N.A.
RO water	N.A.	N.A.	~6µS

FOR INDUSTRIAL USE ONLY

KEEP OUT OF REACH OF CHILDREN

KEEP CONTAINER TIGHTLY CLOSED

NOT FOR INTERNAL CONSUMPTION

CONSULT MATERIAL SAFETY DATA SHEET FOR MORE INFORMATION

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