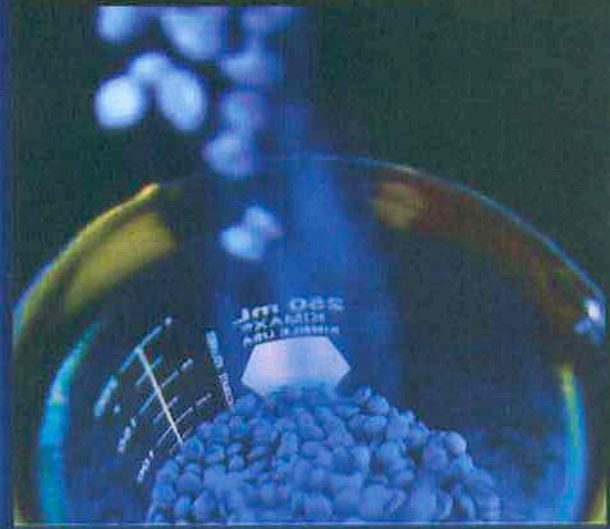
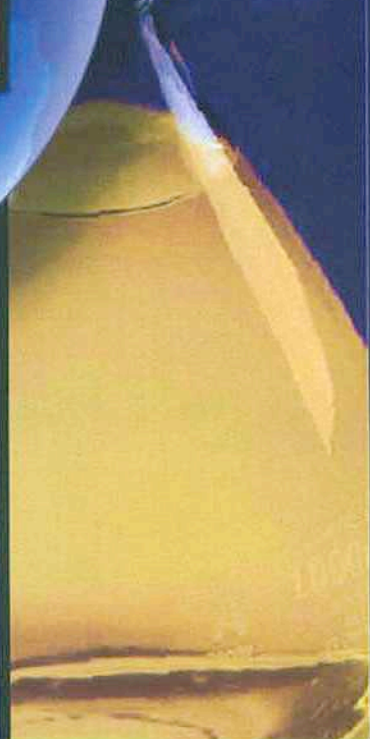




CORTEC CORPORATION



Total Corrosion Control™



environmentally safe VpCl™/MCl® technologies



More Effective Corrosion Inhibitors.

Health, safety and pollution control.

Cortec's® formulations, using the newest chemical technology available, help alleviate your concerns in the areas of health, safety, flammability and pollution control.

Multimetal protection.

A full range of corrosion inhibitors is available to protect ferrous and non-ferrous metals, including formulations that protect combinations of metals.

Short- and long-term protection.

There's a Cortec® solution whether you need temporary protection during in-plant processing, medium-term protection for shipment and storage or extended protection for lay-up, mothballing and field service.

For a variety of environmental conditions.

Now you can effectively protect your metals and products against humidity and aggressive atmospheres as well as against corrosive industrial, marine and tropical atmospheres.

Protected parts are immediately ready for use.

The protective invisible layer deposited by Cortec® Vapor phase Corrosion Inhibitors (VpCIs) needs no removal. No degreasing, scraping, cleaning or further preparation is necessary before processing, installation or use. Your VpCI protected components, parts and finished assemblies are always ready for immediate use. Cortec® barrier coatings are easily removed with conventional cleaning methods.

Does not alter most material properties.

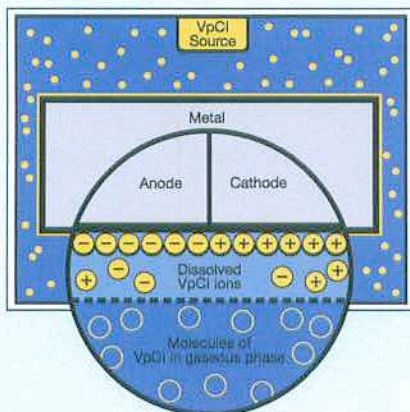
In the majority of cases, the invisible protective ionic layer of Cortec® VpCIs does not alter important surface properties. This is true even for most precision electronic devices where conductivity, permittivity and dimensional tolerances are crucial.

For tiny electronic devices to tanker holds.

Cortec® VpCIs protect any size product — from printed circuit board components in processing, or parts stored in a small box, to large containerized shipments.

How Cortec® VpCIs Work.

Ionic Action of VpCI Creates a Molecular, Inhibiting Layer.



VpCI:

- ▶ Vaporizes.
- ▶ Conditions enclosed atmosphere with a protective vapor.
- ▶ Vapor migrates to all recessed areas and cavities.
- ▶ Vapor condenses on all metal surfaces.
- ▶ Ions dissolve in moisture layer (water electrolyte).
- ▶ Protective ions are attracted to metal surfaces.
- ▶ Ions form a thin, monomolecular protective layer at the metal surface.

Protective layer re-heals and self-replenishes through further condensation of the vapor. VpCI combines with other functional properties:

- ▶ Antistatic
- ▶ Cleaning
- ▶ Desiccant
- ▶ Coatings
- ▶ Fire Retarding
- ▶ Lubricating
- ▶ Paint Removing
- ▶ Polymeric
- ▶ Rust Removing

More Efficient

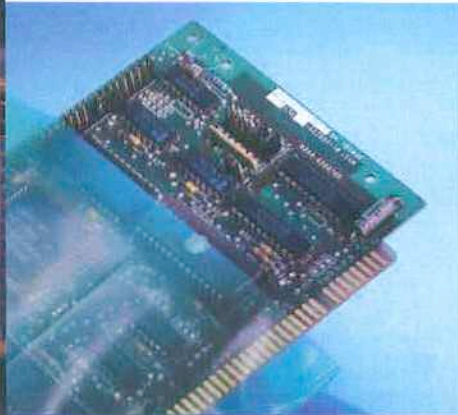
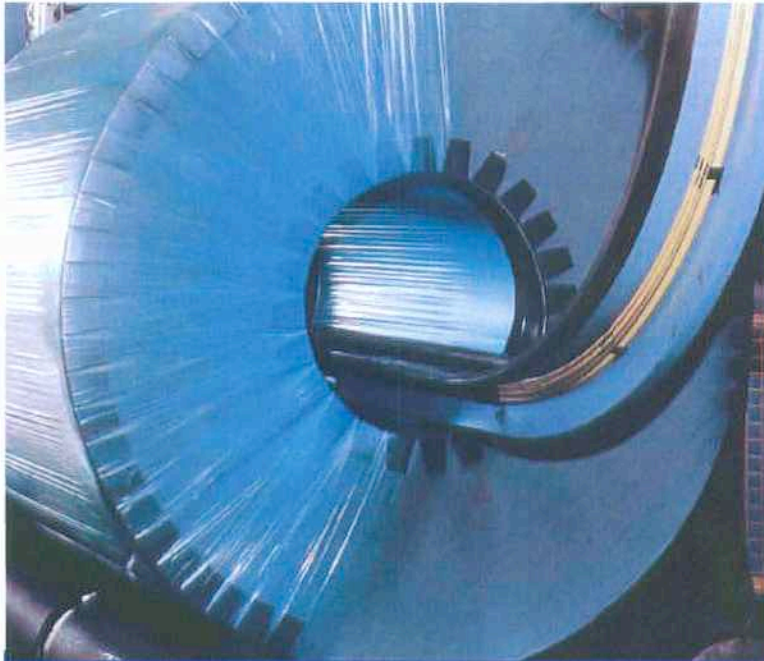
Delivery Systems.

- ▶ Add
- ▶ Attach
- ▶ Automatic dispense
- ▶ Brush
- ▶ Dip
- ▶ Disperse
- ▶ Electrostatic spray
- ▶ Fog
- ▶ Inject
- ▶ Insert
- ▶ Migrate
- ▶ Package
- ▶ Roll-on
- ▶ Wrap

These new delivery systems offer practical, economical breakthroughs for the protection of metal parts and products. Cortec's® innovative use of VpCI/MCI® technology makes these treatment methods possible.

Cortec® VpCIs are uniquely formulated for each type of delivery system. Whether liquid, powder, impregnated foam or plastic, VpCI formulation uses technology to its best advantage for effective and economical corrosion protection.

The creative use of VpCI technology offers improved protection even for conventional applications (brush, rubber blade, dip or spray).



Multifunctional Products.

From packaged products stored indoors to products located outdoors in adverse conditions, new generation VpCI systems make it more profitable to solve a corrosion problem than to ignore it.

For example, you can:

1. Fog a heat exchanger in a few minutes and eliminate your shipping and storage corrosion problems.
2. Protect on-site, operational electrical circuitry for pennies a day.
3. Easily spray valve flanges and stems with an outdoor coating for extended protection.
4. Boost the protection of your lubricating oils with an additive effective for multimetal systems.

These four examples just begin to show how Cortec® VpCIs successfully solve the problem caused by impractical conventional corrosion treatments.

How Cortec® VpCIs Cut Costs.

- ▶ Multifunctional products.
- ▶ More effective protection.
- ▶ Efficient delivery systems that make it economical to treat hard-to-protect items.
- ▶ Easy application.
- ▶ Improved health, safety and pollution control.
- ▶ Elimination of extra processing steps, as there is no need to remove VpCI protection.
- ▶ Extension of equipment life.

Use Cortec® systems in every stage of a product's life, starting from the production of metal stock to actual use in the field. When properly applied, Cortec® VpCIs substantially cut time and costs throughout the entire product life cycle: in manufacturing, storage, shipment and field service.

Cortec® VpCIs eliminate many extra processing steps such as cleaning, degreasing, rust removal, pickling, sandblasting and reprotecting. You have less re-work, fewer rejects, improved quality, reduced rust claims and extended equipment life.

