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**Attention: Editor**

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**PRESS RELEASE**

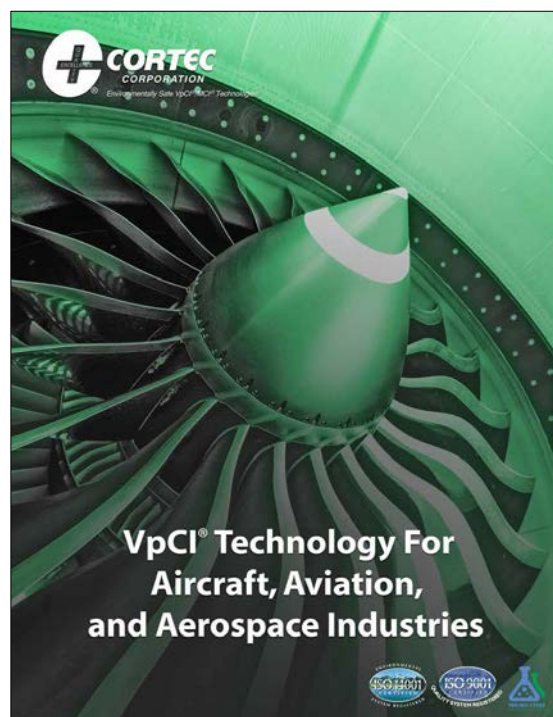


## **Reach New Heights of Corrosion Control with Cortec's "VpCI® Technology for Aircraft, Aviation, and Aerospace Industries"!**

Corrosion in the aircraft industry can be disastrous if left undetected and untreated. Risks increase as aircraft age and are exposed to oxygen, moisture, and other corrosive environments. Critical support equipment may fail if left unprotected. Cortec's new brochure on *VpCI® Technology for Aircraft, Aviation, and Aerospace Industries*, provides new heights of industry leading corrosion protection to aircraft and aerospace equipment!

Aircraft corrosion comes in many forms:

- Surface corrosion is indicated by roughening and etching
- Dissimilar metal corrosion can cause pitting damage in unseen areas



- Intergranular corrosion may result in flaking metal and be difficult to detect
- Stress corrosion is common in landing gear
- Fretting corrosion can produce pitting and fine debris where two mating surfaces rub together

**CORTEC® ADVANCED TECHNOLOGY**

Cortec® has developed technology to fit the ever-increasing demands for better corrosion control measures in the aviation industry. Thanks to the development of new technologies and the committed work of our scientists and engineers we are able to use the most innovative advanced corrosion protection method available today - the application of VpCI®. This is a safe, cost-effective method for preventing severe damage caused by corrosive processes in the aircraft industry. Cortec's technology and products offer highly efficient and economical protection enabling our customers to effectively fight corrosion while decreasing their costs.

**VAPOR PHASE CORROSION INHIBITORS (VPCI®)**

VpCI® Technology is an innovative, environmentally safe, cost-effective option for corrosion protection. Cortec® products protect with a thin, mono-molecular protective barrier. Unlike conventional corrosion-inhibiting methods, Cortec® VpCIs create a barrier that re-heals and self-replenishes itself, and can be combined with other functional properties for added protective capabilities. VpCI® physically adsorbs on metal surfaces creating a barrier layer against aggressive ions. Cortec's VpCI® additives offer highly efficient, pro-environmental, and economical corrosion protection for process systems. While conventional corrosion inhibiting treatments provide protection at the liquid phase only, Cortec® VpCI® Technology provides corrosion protection in the liquid phase, interphase, and vapor phase.

**HOW CORTEC® CAN CUT COSTS**

- Water-based and multi-purposed VpCIs are more economical than conventional oil-based rust preventatives.
- Efficient application results in labor savings.
- VpCIs offer improved health, safety, and pollution control characteristics.
- There is no need to remove the VpCI® protection layer, eliminating extra processing steps.
- VpCI® treatments virtually eliminate economic loss due to rust, speckling, staining, and other forms of corrosion, cutting rust claims and returns while improving the quality of your product.

**CONTINUOUS VPCI® PROTECTION**

Unlike conventional methods, Cortec® VpCIs can be injected into a system at multiple points. Cortec® VpCIs go to work immediately and are self-replenishing, providing continuous, uninterrupted protection in the liquid phase, interphase, and vapor phase. For example, the automatic injection of Cortec® VpCIs into a system - with no attendance operator - provides protection immediately, even on pre-treated or scaled surfaces.

Corrosion control is an ongoing process for a persistent problem. The return on investment is measurable in terms of safety issues. As such, corrosion control is an issue that cannot be ignored.



To combat these corrosion problems, Cortec's Patented Vapor phase Corrosion Inhibitor (VpCI®) Technology offers a safe, cost-effective method for preventing severe corrosion damage in the aircraft industry. Cortec's innovative VpCI® products protect with a thin, monomolecular protective barrier that physically adsorbs on metal surfaces. The barrier has re-healing and self-replenishing characteristics and can be combined with many functional properties to protect against aggressive ions. With VpCI® protection, you can cut costs through labor savings and the elimination of rust claims. There is no need to remove the VpCI® protective layer, which reduces extra processing steps. VpCIs also offer improved health, safety, and pollution control characteristics.

*VpCI® Technology for Aircraft, Aviation, and Aerospace Industries* expresses Cortec's commitment to pro-environmental manufacturing and practices, reflected in the ISO 14001: 2008 Environmental Standard. In addition, many of Cortec's VpCI® products do not contain chromates or other heavy metals, nitrites, or chlorinated hydrocarbons.

This brochure highlights Cortec's Nano VpCI™ coatings that protect aircraft and equipment surfaces against micro-corrosion by way of a tight bonding molecular layer. This eliminates gaps that are present between the relatively large sacrificial metal inhibitor particles on which traditional coatings rely. Cortec® Nano VpCI™ coatings are available in

**ENVIRONMENTAL SAFETY**

Cortec's VpCI® Technology provides a new, pro-environmental set of answers. It offers the most environmentally safe method of corrosion prevention available today, with low toxicity and low-polluting effects. As a chemical company, Cortec® believes in intelligent design and commitment to pro-environmental manufacturing and practices. Our commitment is reflected with Cortec's certification under the ISO 14001: 2008 Environmental Standard. Unlike corrosion inhibiting systems of the past, many Cortec® VpCIs do not contain chromates or other heavy metals, nitrites, or chlorinated hydrocarbons. With the support of our corrosion scientists, engineers, and testing facility, Cortec® provides simple, environmentally friendly, cost-effective solutions to corrosion problems.

**CORTEC® PRODUCTS SUMMARY AND BENEFITS**

- Saves costly time and labor
- Protects the environment
- Offers complete package solutions
- Dispenses in water, oils, solvents
- Formulates easily
- Protects multi-metals
- Corroses in multi-functional products
- Does not alter emulsion properties
- Protects against SCC (Stress Corrosion Cracking) and HE (Hydrogen Embrittlement)
- Requires little or no surface preparation
- Prevents further corrosion of ferrous surfaces
- Does not interfere with operation of mechanical components

**MICRO-CORROSION INHIBITING COATINGS POWERED BY NANO VpCI™**

Traditional coatings rely on sacrificial metals (zinc, chromates, aluminum) for inhibition. Due to the large particle size of these inhibitors, gaps exist which allow corrosion to start and eventually expand, causing coating failures.

Cortec® Nano VpCI® coatings use the patented VpCI® Technology to protect the metal substrate with a tight bonding molecular structure. This system eliminates the gaps which occur with traditional inhibitors and prevents corrosion from starting.

Cortec® offers VpCI® primer (a corrosion inhibiting base coat with good adhesion to aluminum), VpCI® top clear coat for exteriors, and VpCI® interior coating for protection of vulnerable internal surfaces.



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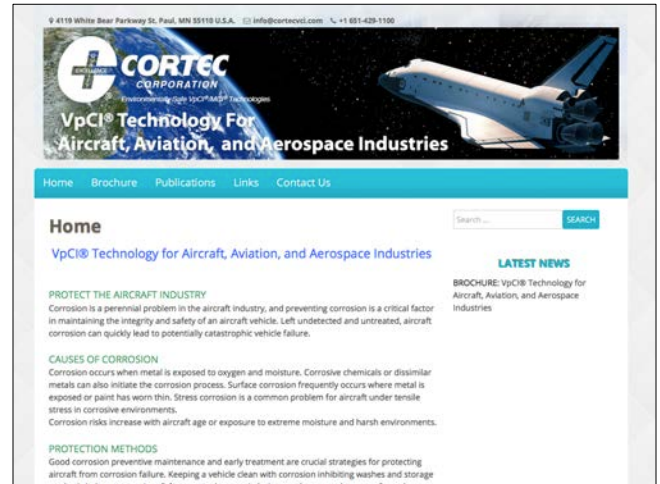
The corrosion challenges of aerospace are many, but with *VpCI® Technology for Aircraft, Aviation, and Aerospace Industries*, Cortec® provides cost-effective solutions to rise above significant corrosion issues clouding aerospace horizons.

To view the website, please visit:

<http://cortecaero.com/>

To view the brochure in its entirety, please visit:

<http://cortecaero.com/brochure/>



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Cortec® Corporation is the global leader in innovative, environmentally responsible VpCI® and MCI® corrosion control technologies for Packaging, Metalworking, Construction, Electronics, Water Treatment, Oil & Gas, and other industries. Our relentless dedication to sustainability, quality, service, and support is unmatched in the industry. Headquartered in St. Paul, Minnesota, Cortec® manufactures over 400 products distributed worldwide. ISO 9001, ISO 14001:2004, & ISO 17025 Certified.

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