

7 FAQs: Volatile Corrosion Inhibitors

Presented by:

Daubert Cromwell

12701 S. Ridgeway Ave.

Alsip, IL 60803

www.daubertcromwell.com



What is volatile corrosion inhibition?

Volatile corrosion inhibition (VCI) is a function of a combination of related factors:

- Chemicals used
- Ratios of the chemicals in the formulation
- Compatibility
- Amount of chemical present (coat weight)



Do These Factors Each Work Independently?

No, they work together to create an effective VCI.

For instance, the absolutely right VCI formulation for your application won't provide viable protection if the coat weight (the amount of VCI in the paper or film) is too low.



The metal will still corrode – even though the VCI formulation itself is highly effective.

Why Are There So Many VCI Formulations?

Different formulations and products are needed to achieve the right level of protection across a broad range of requirements.

Some companies simply offer a "multi-metal" inhibitor. But the creation of a multi-metal inhibitor requires such a range of chemicals that they are unable to provide the full scope of protection they promise. There is no "one product fits all" approach. VCI formulations should be tailored to meet the needs of each customer and to maximize product performance.



Why Test for Compatibility?

When a product is packaged in VCI, frequently it is not completely dry or "bare" of any chemical or chemical residue.



In fact, metal surfaces frequently have oils or chemical residues, which may interact with chemicals in the VCI formulation – resulting in lower corrosion protection or even a greater attack of the metal. Therefore, compatibility testing is always recommended to ensure the VCI product will meet your expectations.

Where Should VCI Packaging Be Used?

Volatile corrosion inhibitors should be used in any metal application where corrosion can occur.

This includes:

- In process
- While in storage
- During shipment and export



Unprotected metals begin to corrode immediately, so even JIT (just in time) manufactured parts will benefit from VCI protection.

How Long Can VCI Last?

Volatile corrosion inhibitors will provide complete protection for years, depending on duration and condition of use.

To get the corrosion protection you need – whether long or short term – look for a reputable, experienced manufacturer that offers a range of products to accommodate specific packaging requirements.



Who Should I Trust With My VCI Packaging?

A reputable VCI manufacturer will offer a comprehensive selection of volatile corrosion inhibitors that:

- Include a wide range of packaging options (paper, film, emitters, etc)
- Cover both short- and long-term needs
- Protect virtually any metal, such as:
 - Steel
 - Iron
 - Aluminum
 - Zinc
 - Silver
 - Brass & Copper



Daubert Cromwell has been a trusted source of volatile corrosion inhibitors for nearly 80 years. Manufacturers have always relied on our expertise, innovation and quality for the VCI packaging their products need.



Contact one of our Authorized Distributors to learn more about the right corrosion protection for your application. For the name of your nearest distributor, call 1-800-535-3535, or email us at info@daubertcromwell.com

**The Leading Name in
Corrosion Prevention®**