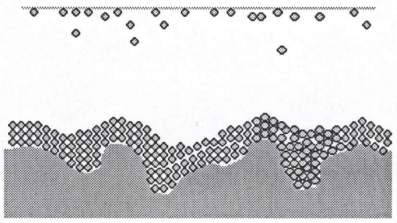
How Daubert Cromwell® Products Work



The term **"VCI"** stands for **Volatile Corrosion Inhibitor**.

The chemicals in Daubert Cromwell products are volatile. When metals are wrapped or packaged in VCI, the chemicals volatilize in the packaging environment, forming a protective molecular layer on the surface of the metal. This protective layer serves as a barrier, preventing moisture, salt, dirt, oxygen, and other corrosion causing materials from depositing directly on the metal and causing rust and corrosion.

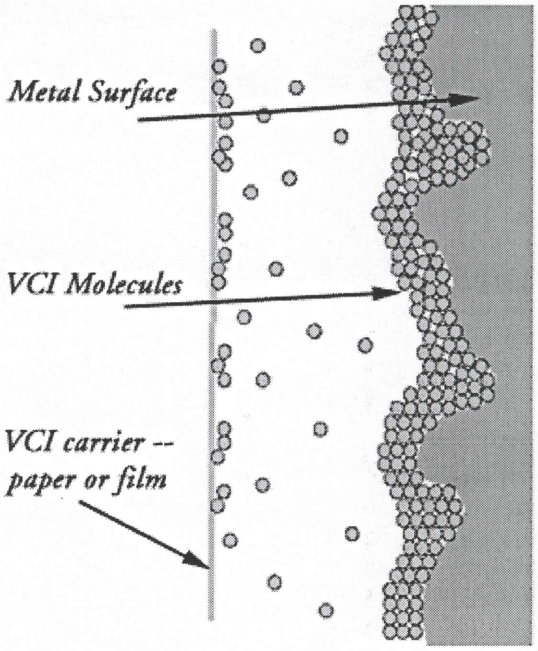
How VCI Works

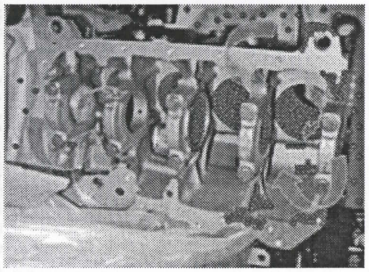
Corrosion inhibitor compounds vaporize from the paper or film. They are attracted to the charged surface of the metal by virtue of their polar orientation.

The VCI molecules align on the surface of the metal to a depth of 3 to 5 molecules. This layer of molecules passivates the charged surface and creates a barrier that prevents oxidation. The corrosion cell (the flow of electrons in the metal and the flow of ions in the electrolytic surface layer) is unable to establish itself. Corrosion is halted.

Airtight packing is <u>not</u> required!

Simply store or ship metal parts in VCI packaging. When the parts are unwrapped, the protective layer immediately begins to dissipate. The metal parts are clean, corrosion-free and ready to use. No washing, dipping or cleaning is necessary.





The VCI molecules migrate into recesses and hard to reach areas on even the most complex shapes. The molecules build up on the metal surface until a continuous barrier has formed on the metal part.

Protect your parts... protect your quality... with Daubert Cromwell products.