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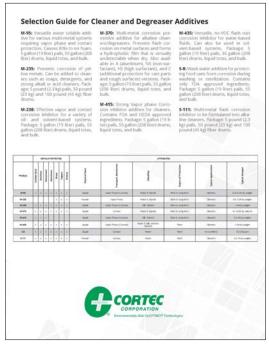
Cortec's New "VpCI® Additives for Cleaners and Degreasers" Brochure – Uniting Corrosion Protection with Cleaning!

Cleaning is often a necessary evil for metal components and equipment in countless industries. While cleaning and degreasing processes are an important part of keeping metals uncontaminated, they also expose metals to corrosive moisture and leave them susceptible to flash corrosion.

Cortec[®] addresses this problem in a new brochure of VpCI[®] additives that can be added directly to cleaning fluids and degreasers. These additives protect metals against flash corrosion to streamline the cleaning, manufacturing, restoration, or preservation process. Dilution at low rates of VpCI[®] additives added to the cleaning solution allows for greater cost-effectiveness by stretching additive coverage



VpCI® additives for cleaners and degreasers are an excellent choice for speeding up the work-in-process (WIP) manufacturing cycle. Often, the WIP cycle slows down because of the need to clean metal components, apply rust preventatives, and repeat cleaning between each step of manufacturing. By adding VpCI® additives directly to the cleaning and degreasing process, components can be protected from flash rust and corrosion until the next manufacturing step, without applying an extra rust preventative.



A helpful selection guide in the brochure introduces the reader directly to the characteristics of each additive:

Metal

Cathode

- Metals Protected
- Physical State (liquid or powder)
- Transport Mechanism
- Solubility
- Degree of Protection
- Typical Applications
- Typical Dosages

The use of VpCI[®] cleaner/degreaser additives is more environmentally friendly and cost effective. The additives reduce the use of traditional petroleum-based rust preventatives, which have hazardous waste disposal requirements. VpCI[®] additives also do not typically rely on heavy metals like chromates and phosphates to inhibit corrosion. Options include a no-VOC flash rust corrosion inhibitor that can be used with either water-based or solvent-based systems.

A unique characteristic of Cortec® VpCI® cleaner/degreaser additives is the availability of both contact and vapor phase protection options. While contact inhibitors are a very traditional system of protecting metals directly in contact with the inhibitor, Vapor phase Corrosion Inhibitors add a new dimension of protection. With their vapor phase ability, they are released from their source material, then disperse and form a protective layer on metal surfaces inside an enclosed space. This is particularly helpful for

situations where the complex geometry of metal parts makes it more difficult to ensure thorough

application of corrosion inhibitor to all surfaces. Formulators can choose from additives for contact protection, vapor protection, or a combination of both. Degree of protection ranges from flash to long-term protection of up to several weeks.





A variety of water, oil, solvent, and glycol soluble options are available to match the customers' cleaning or degreasing needs—whether they require an environmentally-friendly water-based product or a solvent-type cleaner for difficult degreasing situations. Cortec[®] even addresses the need for flash corrosion protection of food cans during washing or sterilization with a special in-can rinse additive that contains only FDA approved ingredients. VpCI[®] additives can be used for corrosion protection during vehicle and equipment cleaning and the restoration of corroded assets, as well.

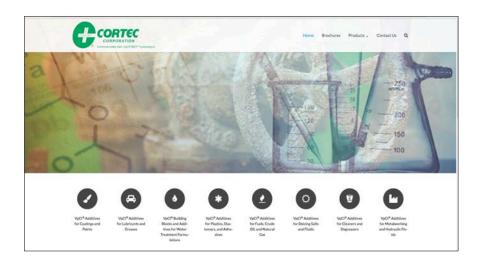
Whether for cleaning manufacturing components, food cans, vehicles, structures, or other assets, VpCI[®] additives are an important part of preserving metal surfaces from corrosion during the vulnerable cleaning/degreasing process. Cortec[®] provides a range of options to help the formulator, manufacturer, or asset owner find the right protection strategy for the situation.

To read the entire version of this brochure, please visit:

https://www.cortecvci.com/Publications/Brochures/VpCI Additives CleaningDegreasers.pdf

For more information about Cortec's innovative additives products, please visit:

http://cortecadditives.com/



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