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Cortec's New VpCI® Additives Brochure Offers Comprehensive Range of Corrosion Inhibiting Options!

Cortec's new VpCI® Additives brochure opens up a wide range of flexible corrosion inhibiting options for product manufacturers and industrial end users. By creating a more user-friendly brochure, Cortec® is offering industries and manufacturers better access to the many VpCI® additives options available—either for using directly in their operations or for enhancing the corrosion protection of their manufactured goods.

Cortec's additives integrate many technologies along with proprietary VpCI® chemistry in order to eliminate corrosion caused by corrosive fluids, chlorides, or humid environments. When implemented, these additives ultimately cut costs such as those associated with expensive



alloys, corrosion claims, and labor.



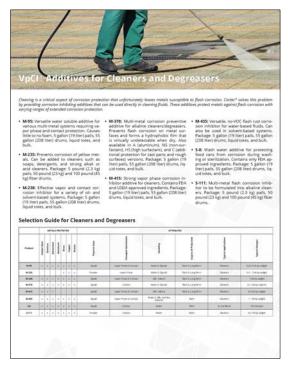
Many of Cortec's additives provide excellent contact protection with additional vapor phase protection for metals in void spaces. When introduced to a void space, VpCI® molecules in these additives vaporize and diffuse throughout the enclosure and adsorb on metal surfaces. This thin molecular, hydrophobic layer protects the metal against corrosive elements such as oxygen, moisture, and chlorides.

Cortec's line of additives includes many environmentallyfriendly options, such as water-based or biodegradable components and products that reduce the overall use of hazardous materials by streamlining corrosion inhibiting

processes. Cortec[®] offers many environmentally friendly methods of treatment with low toxicity and low polluting effects. Unlike corrosion inhibiting systems of the past, many Cortec[®] additives do not contain chromates or other heavy metals, nitrites, or chlorinated hydrocarbons.

Cortec's additives are divided into eight categories:

- Cleaners and Degreasers
- Coatings and Paints (including inks)
- Deicing Salts and Fluids
- Fuels, Crude Oil, and Natural Gas
- Lubricants and Greases
- Metalworking and Hydraulic Fluids
- Plastics, Elastomers, and Adhesives
- Water Treatment Formulations



Each category includes a brief description of relevant additives, along with a helpful selection guide to decide which additive is most compatible with a particular situation. The user can select additives according to the type of metal needing protection, the duration of protection required (long term or flash

corrosion protection), and the transport mechanism (vapor phase or contact protection) best suited to the application. The charts also list typical dosage and specify whether the product is soluble in oil, solvent, water, or another carrier.



Cortec's VpCI® additives for cleaners and degreasers include many flash rust inhibitors that can be added to water, glycol, oil, or solvent cleaning fluids to protect the metals being cleaned. Some offer additional long term protection after the initial wash.

Paints, coatings, and inks can also be enhanced with VpCI® for protection against flash rust, humidity, and salt fog. A detailed selection guide shows their compatibility with many different types of water-based and solvent-based coatings.

Another important and unique category is additives that

counteract the highly corrosive nature of deicing salts and fluids. This group of additives includes not only those for deicing chemicals in transportation applications, but also those for protecting systems dealing

with corrosive seawater and brine.

Cortec's additives for fuels, crude oil, and natural gas offer a range of vapor phase and contact corrosion protection for a variety of applications: process injection; pigging; and fuel equipment storage, shipment, and use. Many of these additives include vapor phase protection—an important property for protecting void spaces in fuel storage containers.

Lubricants and greases can also benefit from the increased corrosion protection of VpCI® additives. A common misconception is that oil-based products are naturally strong rust preventatives. However, while oil itself can help displace moisture, a good corrosion inhibiting additive can significantly



increase protection of lube and grease systems. Many of these additives offer vapor phase protection for metals in the void space above the lubricant and are soluble in both oils and solvents.

Further expanding the range of Cortec's unique VpCI® collection is its class of additives for plastics, elastomers, and adhesives. By including VpCI® in these materials, manufacturers can add vapor phase and contact corrosion inhibiting properties to the plastics, rubbers, or adhesives that they produce. This has been especially strategic in the implementation of VpCI® into polyethylene and polypropylene.

Finally, Cortec[®] offers many helpful additives for treatments. water class of products focuses on the prevention of both corrosion and scale buildup in process water. Additives for boilers, heat exchangers, cooling towers, and condensate lines can be instrumental in lengthening the life of a





boiler system and reducing maintenance. Additionally, Cortec's corrosion inhibitor additives make great building blocks for full water treatment formulations.

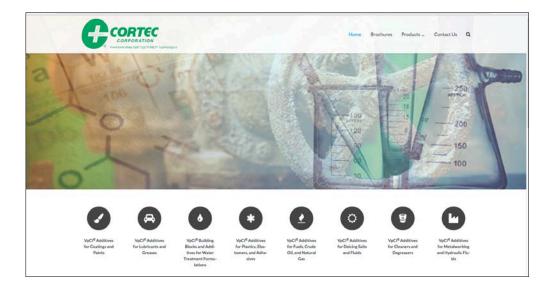
The many options in this brochure demonstrate the great versatility of Cortec[®] VpCI[®] Technology for a full range of applications. From enhancing coating protection, to counteracting the corrosion of deicing salts, to providing built-in corrosion protection for cleaners and degreasers and other materials, Cortec's additives open up a full range of options to manufacturers and industrial end users looking to enhance the quality of their products.

To see the full version of Cortec's Additives brochure please visit:

http://cortecadditives.com/wp-content/uploads/2017/04/Additives Brochure 04-2017.pdf

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

http://cortecadditives.com/



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