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Attention: Editor

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PRESS RELEASE

VpCI®-705 Bio: Cleaner and Efficient Fuel Additive Powered by Nano VpCI®!

As gas prices are soaring, you are probably wondering first and foremost about ways to maximize the fuel economy of your vehicles. However, it can also be good to consider long-term concerns like corrosion control when filling the tank. VpCI®-705 Bio, powered by Nano VpCI®, is a specially formulated biobased multifunctional biofuel additive produced using renewable and sustainable raw materials. This sustainably sourced product serves as a corrosion inhibitor, fuel stabilizer, and water emulsifier for biodiesel, diesel, gasoline, gasohol mixtures, and other biofuels. It provides premium multiphase corrosion protection and lubricity.

Scientists have long been researching the use of biobased materials to replace non-renewable resources. This “green” fuel additive is a powerful option for keeping new and existing fuel systems in good condition during day-to-day operation, especially during vulnerable times such as intermittent operation, storage, or shipment. VpCI®-705 Bio provides excellent corrosion protection for all engineering metals commonly used in automotive fuel systems, including tin-plated and galvanized steel, cast iron, aluminum, copper-base alloys, solder, zinc, and die-cast alloys. VpCI®-705 Bio enables unique multimetal corrosion protection in all phases: liquid, interface, and vapor phases for protection above and below the fuel level. It can be used in operation or storage.

VpCI®-705 Bio will protect from corrosion during both continuous and intermittent operation. The product does not contain trace metals, chlorides, chromates, nitrites, or phosphates and does not form corrosive combustible products. It absorbs water in tanks and fuel lines and can be applied by fogging.

Without VpCI®-705 Bio

Fuel treated with VpCI®-705 Bio

In industry, there is often a requirement for large fuel storage tanks and systems. This can cause problems such as fuel separation and potential freezing in cold climates. Cortec’s VpCI®-705 Bio helps alleviate this problem by reducing the fuel freezing point.

TYPICAL APPLICATIONS

- Fuel tanks
- Carburetors
- Fuel pumps
- Upper engine cylinder components

VpCI®-705 Bio is part of Cortec's wide range of "green" corrosion control options that use sustainable resources. VpCI®-705 Bio is a USDA Certified Biobased Product and a qualified product under the mandatory federal purchasing initiative of the USDA BioPreferred® Program.* The USDA label makes it easy for consumers to locate and compare biobased products for purchase. Biobased products are derived from plants and other renewable agricultural, marine, and forestry materials. They provide an alternative to conventional petroleum derived products. By choosing a certified biobased product, the consumer can be assured that the USDA and the federal government stand behind the accuracy of the percentage of biobased ingredients stated on the label.

Cleaning and Protection of Compressor Rotor

VpCI®-705 Bio can be used in a variety of applications, as demonstrated by the following example. A major oil and gas company in Indonesia wanted to clean and protect a rotor that had been previously used and was going to be stored in a warehouse. The problem was that it was difficult to clean off the residual carbon that had stuck to the surface of the rotor. They had tried various cleaners including WD-40®,** a solvent-based cleaner, and a water-based degreaser, but the results were unsatisfactory.

Before

After

Cortec's distributor proposed using VpCI®-705 Bio. This served as a residual carbon cleaner and corrosion inhibitor applied prior to wrapping the rotor in VpCI®-126 Shrink Film for storage in a warehouse. It turned out that VpCI®-705 Bio was very effective at cleaning the remaining carbon off the rotor without requiring additional work with mechanical brushes, which could have scratched the very sensitive rotor. The customer was very satisfied with the method—especially for cleaning purposes.

VpCI®-705 Bio conforms to rust testing under military specification MIL-I-2501 and ASTM D665, and is applicable under NACE RP0487-2000.

For more information about the BioPreferred® Program, go to https://www.biopreferred.gov/BioPreferred/.
****WD-40® is a registered trademark of WD-40 Company.***

Keywords: corrosion protection, cleaner, USDA, automotive, fuel systems, VpCI, Oil and Gas, rust preventative, green technology

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