BioCortec® Newsletter

October 2015

Cortec's 32nd World Sales Meeting
The Most Successful Yet!

The 2015 Cortec® World Sales Meeting has become the most successful year for its representatives attending from around the world! The kick off started with the general session, which brought together 165 of our partners from 95 countries to share the Cortec® vision and goals for the upcoming years. Cortec® President/CEO, Boris Miksic, FNACE presented his state of the company "Nuts and Bolts of How to Build a World Class Company and Have Fun in Life", showing how Cortec® has become the global leader in the corrosion prevention industry through hard work and perseverance!

During the general session, Cortec® recognized an elite few for a job well done. The Customer Service Department presented their "Customer Appreciation Awards" to Stanley Kaczorowski from Carolina Green, Rae Jean Nicholl with S.M.A.R.T., and Bodil Meijer Gustafsson from Tribotec. Metal Preservation Group USA was awarded the "Cortec® "Rusty" Top 10 Distributors" by the sales department for the second time in a row.

The general session ended with keynote speaker, John M. Spangler with Caterpillar, Inc. giving his presentation "Advanced Materials Technology Corrosion Engineering Program". The remaining days of the event were full of lively sessions, presentations, and social gatherings that gave us the opportunity to get together in person, share strategies and best practices, learn from each other, and have fun! Cortec® wishes to say "Thank You" to the attendees for their participation. We look forward to seeing you again in Minnesota in 2017.

Look for the many other events in Cortec's future on our website: www.cortecvci.com

Featured Products

Cortec® Introduces New Generation of Biodegradable Film EcoSol®

Issue date:07/08/2015 Source: CPRJ Editorial Team (JEN)

Cortec® Corporation has introduced a new water soluble film technology, EcoSol®, for a wide range of packaging applications. EcoSol® is a water soluble, biodegradable, polyvinyl alcohol (PVOH) film suited for production of water soluble PVOH bags, sachets, or pouches for packaging of e.g. detergents and cleaners, degreasers, concrete additives, pigments, biocides, watertreatment products and agricultural products.

The strong organic solvent resistance of EcoSol® makes it possible to store not only dry powders, but also liquid products. The contemporary film has good tensile strength as well as strong tear and puncture resistance.

Mechanical properties of EcoSol® packaging conform the normative of ASTM D 88202 for Braking factor, Tensile Strength of break, Elongation and Yield Strength; It's Tear Strength is tested according to ASTM D 192206a and Dart Drop Impact resistance per ASTM D 170904.

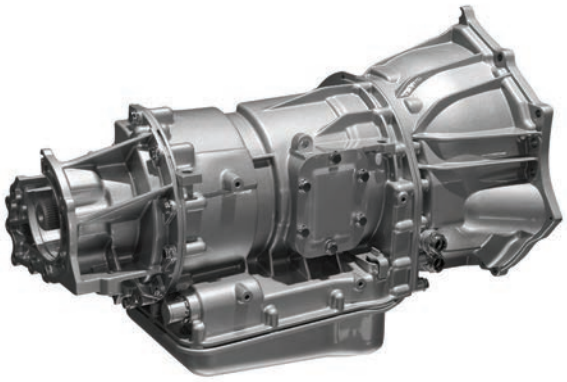
After a few minutes of immersion at the specified temperature, the biodegradable film dissolves in water leaving a harmless, nontoxic, aqueous solution of polyvinyl alcohol, according to Cortec®.

Once the liquid solution of PVOH comes in contact with common microorganisms, such as those found in watertreatment plants, conversion to CO^2 and water takes place within about 30 days.

EcoSol® bags were a part of a "green" initiative conducted by Wright Patterson Air Force Base where all products and processes were being evaluated for environmental impact.

Biodegradable Rust Preventive Provides Protection For Automotive Parts

The automotive industry faces difficult challenges in fighting the effects of corrosion both in economic loss and environmental safety. To help in this battle, corrosion research chemists at Cortec® Laboratories have developed an advanced rust preventative to preserve transmissions and their components during storage and shipment! BioCorr® ATF Rust Preventative is an emulsion rust preventative that combines film-forming additives with Vapor phase Corrosion Inhibitors (VpCI®).



BioCorr® ATF Rust Preventative provides multi-metal protection and is an excellent environmentally sound alternative to petroleum derived products. This formulation can provide protection for up to two years of indoor storage, or during shipments when combined with VpCI® packaging materials.

Unlike rust preventative oils this product leaves a dry film on the surface of the metal that is virtually undetectable. This feature helps to create a clean workplace and prevents material waste. BioCorr® ATF Rust Preventative is VOC free and the formulation is biodegradable; eliminating expensive

Continued on page 3....

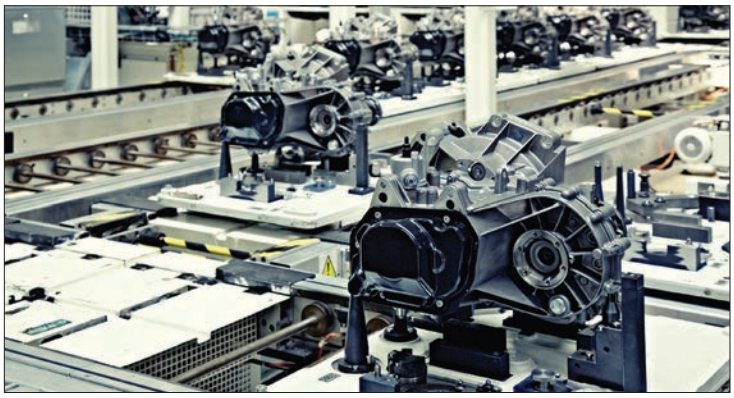
disposal costs associated with oils. The ultra thin, dry protective layer of BioCorr® ATF does not change tolerances of precisely machined metal surfaces, thus allowing robot assembly without cleaning. It is compatible with engine and transmission lubricants as well as nonmetallic gaskets, seals, elastomers, and plastics.

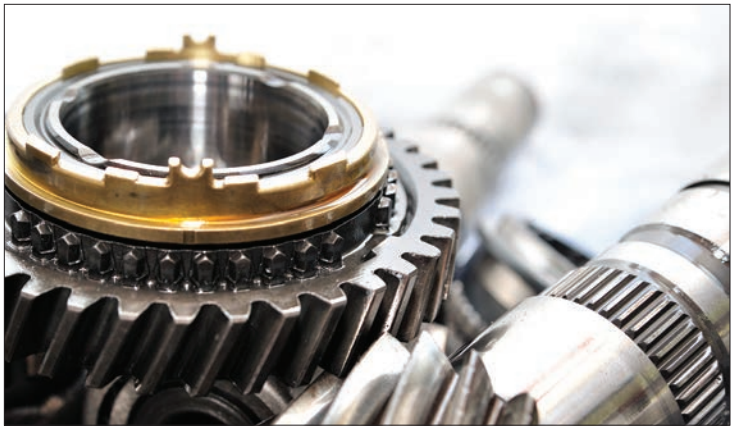
BioCorr® ATF is a ready-to-use product and can be applied by dipping or spraying. It can be used for biodegradable preservation of transmissions and their components, as a temporary coating for storage and shipment, and for protection of pipes, flanges, gears, cast iron, sheets, and coils.

FEATURES

- Provides excellent multi-metal corrosion protection
- Combines film-forming additives with VpCI®
- Displaces water and oil from metal surfaces
- Forms an invisible dry to touch film
- Environmentally friendly and biodegradable
- Replaces hazardous mineral oils and flammable solvents
- VOC free
- Contains no chlorinated compounds, chromates, or nitrites
- Ready-to-use
- Formulated with renewable raw materials, and doesn't contain mineral oil

BioCorr® ATF Rust Preventative is packaged in 5-gallon (19 liter) pails, 55-gallon (208 liter) drums, liquid totes, and bulk. BioCorr® ATF Rust Preventative conforms to ASTM D 1748 standard.



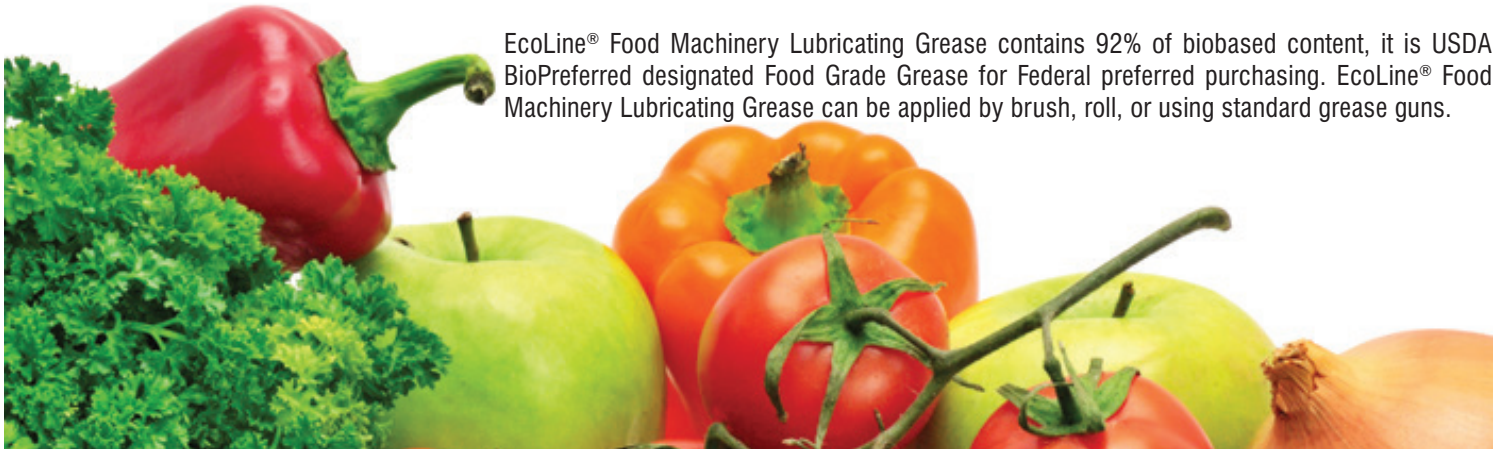


New Biobased Corrosion Inhibiting Lubricant Utilizing Green Technology

Issue date:05/11/2015 Source: Industry Europe/ Food & Beverage News

EcoLine® Food Machinery Lubricating Grease is a certified biobased, high-quality, corrosion inhibiting lubricant formulated with renewable American-grown natural seed oil. This environmentally friendly lubricating and rust preventative grease, is specifically formulated to meet and exceed the demands of major food and meat processing plants. EcoLine® Food Machinery Lubricating Grease provides excellent corrosion protection for ferrous and colored metals while its biodegradable formula reduces damage to the environment.

The combination of FDA approved corrosion inhibitors and the specially formulated aluminum based thickener, enables superior protection and lubricity to most conventional greases. In addition to lubricating, self-healing, and high flash point properties, this biodegradable lubricating grease provides a powerful combination of contact and vapor phase corrosion protection. EcoLine® Food Machinery Lubricating Grease reduces friction and wear and has high flash point for increased safety. It enables superior lubricity to promote longer equipment life. The product meets EPA's EPP criteria as well as most manufacturer's specifications and is recommended for both operating and mothballed equipment.



EcoLine® Food Machinery Lubricating Grease contains 92% of biobased content, it is USDA BioPreferred designated Food Grade Grease for Federal preferred purchasing. EcoLine® Food Machinery Lubricating Grease can be applied by brush, roll, or using standard grease guns.

Cortec®: Creped Paper For Corrosion Protection

CorShield® VpCI®-146 Creped Paper Creates Packaging For Multi-Metal Corrosion Protection.

by Ron Romanik, Products Editor at Packaging World

Cortec® introduces CorShield® VpCI®-146 Creped Paper powered by Nano VpCI®—a premium corrosion inhibiting paper that is environmentally safe, non-toxic, biodegradable, and does not contain nitrites, phosphates, or silicates. CorShield® VpCI®-146 Creped Paper utilizes Cortec's patented Vapor-phase Corrosion Inhibiting (VpCI®)technology to provide a revolutionary way to protect metals in enclosed packages.

CorShield® VpCI®-146 Creped Paper is made from the highest quality Neutral Natural Kraft (NNK) paper without any chemical bleaching and is fully recyclable and repulpable. Without any chemical concentrations to calculate or a chemical tank or application system to maintain, CorShield® VpCI®-146 Creped Paper is easy to use. Once a product is wrapped in the creped paper, the VpCI® technology goes to work to protect it from corrosion while the structure of the paper provides protection from damage during transportation by delicately cradling the product.

The VpCI® coating on the creped paper vaporizes to reach all metal surface areas and provides complete corrosion protection. The unique Cortec® VpCI® technology forms a very thin and effective protective layer that does not alter the appearance of products or require removal before further processing or use. The protective layer does not influence properties of most sensitive electrical parts, such as conductivity and resistance. Parts protected with CorShield® VpCI®-146 Creped Paper can be painted, welded, and soldered.

This bio-based, sustainable, and renewable Creped Paper can be used to protect products for storage and shipment in a variety of ways: single item packaging, interleaving; end closures for shipping tubes; inserting strips for recessed areas in large packages; and as sheet liners or separators between products. It is particularly suitable for the bearing industry as CorShield® VpCI®-146 Creped Paper offers cushioning, multi-metal corrosion protection, and creates the "pooling" effect for RP oils. CorShield® VpCI®-146 Creped Paper protects carbon steel, stainless steel, galvanized steel, cast iron, aluminum alloys, copper, brass, and solder.

Applications include:

- Bearing protection during storage and shipment
- Metal producing: coils, wire reels, plate, bar, etc.
- Metal forging and die casting: raw and machined forgings and castings
- Metalworking: stamping, sheet metal work, springs, bearings, fasteners, tube, pipe, nails, etc.
- Finished products: engines, machinery, equipment, tools, hardware, appliances, instruments, motors, etc.
- Electrical and electronic components, controls, etc.

Cortec's CorShield® VpCI®-146 Creped Paper conforms to NACE Standard RP0487-2000 and is RoHS compliant.

Coming Soon

BioEmitter™

- Carrier with high bio-based content on a pad
- Protects up to 1 cubic meter
- Easy to use

BioEmitter™
RUST BLOCKER SHIELD ON BIOBASED PAD

CORTEC CORPORATION
Environmentally Safe VpCI®/MCI® Technologies

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ISO/IEC-17025 LABORATORY TESTING CERTIFIED

ISO 9001 CERTIFIED QUALITY SYSTEM REGISTERED

ISO 14001 CERTIFIED ENVIRONMENTAL SYSTEM REGISTERED

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