



CORTEC
CORPORATION

Environmentally Safe VpCI®/MCI® Technologies

VpCI® Corrosion Protection for Basic Metals Industries



ISO 9001 • ISO 14001
ISO/IEC 17025



PROVIDING CORTEC® VpCI® CORROSION SOLUTIONS AROUND THE GLOBE

Cortec® Corporation provides VpCI® corrosion solutions to basic metals industries across the globe. Whether corrosion takes place on raw materials, in-process metals, or export goods, Cortec® is ready to help pinpoint the problem and provide a practical, integrated solution from its extensive portfolio of VpCI® products. Cortec® acts like an insurance provider by providing protection against future corrosion losses. By investing in corrosion solutions now, manufacturers save themselves from heavy loss later.

Stop Corrosion, Not Production!

Corrosion in the basic metals industries can happen at any time. It results in stalled production, wasted materials, returned goods, and dissatisfied customers. Preventing corrosion from start to finish will help industries avoid these problems and keep the supply chain moving.

Cut Costs, Save Time, Consider the Environment

Cortec's VpCI® total corrosion solutions provide practical alternatives to conventional corrosion protection in order to cut costs, save time, and reduce environmental impact. Cortec® replaces many petroleum-based rust preventatives with water-based or biobased options and offers recyclable packaging materials that can replace cumbersome rust preventatives altogether. Products are easy to apply and remove, increasing WIP (work-in-process) cycle efficiency, cutting labor costs, and reducing rust claims. VpCI® MRO materials reduce costs by extending asset service life.

Vapor phase Corrosion Inhibitors: An Innovative Approach to Corrosion Control

Many Cortec® products are enhanced with Vapor phase Corrosion Inhibitors. This technology releases corrosion inhibiting vapors that, when trapped in an enclosed space, condense on metal surfaces and form a protective molecular barrier against corrosion. This improves the ability of products to provide protection on intricate surfaces or in hard to reach spaces. It minimizes the need for rust preventative application and removal. No special cleaning is required to remove Vapor phase Corrosion Inhibitors prior to painting, plating, stamping, welding, forming, etc. Cortec® also offers a variety of robust rust preventatives and removable coatings when logistics are not optimal for protection in the vapor phase. Contact Cortec® for details.

INCORPORATING CORTEC® VpCI® CORROSION SOLUTIONS INTO FIVE STAGES OF THE BASIC METALS INDUSTRIES

Stage 1: Refining

Conversion of ore into molten metal (iron, copper, aluminum, etc.).

Corrosion Control Strategies:

- Apply VpCI® MRO products to equipment for extended service life.



Stage 2: Milling

Processing molten metal into blooms, slabs, ingots, billets, and metal powder/sinter.

Corrosion Control Strategies:

- Insert VpCI® pouches and emitters into barrels of metal powder/sinter for storage and shipping.
- Wrap blooms, slabs, ingots, and billets in VpCI® paper or film for storage and shipping.
- Use VpCI® rust preventatives as needed for storage and shipment to eliminate the need for rework.

Stage 3: Metalforming

Metal is hot rolled, forged, cast, or sintered into roughly shaped parts.

Corrosion Control Strategies:

- Use VpCI® cleaners or rinsing and blasting additives to avoid flash rust when cleaning equipment and parts.
- Use VpCI® paper, film, and emitters for dry packaging protection during temporary storage and shipping.
- Use VpCI® rust preventatives for long-term storage or shipping when extra protection is needed.
- Remove pre-existing or flash rust with VpCI®-422 or VpCI®-423. Neutralize with VpCI®-418 cleaner.



Stage 4: Metalworking

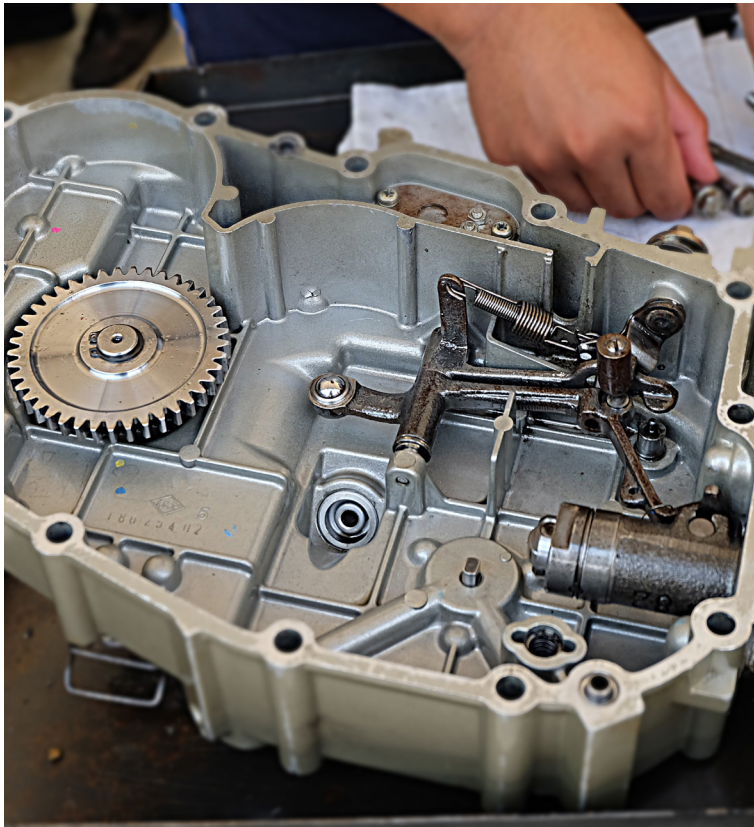
Metal undergoes machining, honing, stamping, drilling, drawing, cold rolling, or forming into more precise metal components.

Corrosion Control Strategies:

- Protect metalworking equipment and workpieces with VpCI® metalworking fluids.
- Clean/degrease metal components with VpCI® flash rust inhibiting cleaners.
- Remove incidental rust with VpCI®-422 or VpCI®-423. Neutralize with VpCI®-418 cleaner.
- Replace mineral oils with VpCI®-344 to reduce friction and corrosion during wet tempering.
- Apply VpCI®-325 or VpCI®-329 D to steel coils after pickling and before recoiling.
- Spray ID, OD, and laps of coils with VpCI®-337 or VpCI®-329 D before shipment to protect internal surfaces.
- Interleave and wrap freshly honed metals in VpCI® paper or film for flash corrosion protection during temporary storage. Add VpCI® emitters if extra protection is needed for large volumes.
- Replace hazardous oil-based rust preventatives with BioCorr® (biobased) or VpCI®-377 (water-based) dry film rust preventatives.
- Enhance protection for extreme export shipping conditions by overlapping the use of VpCI® papers, films, emitters, and rust preventatives.



Maximize protection by overlapping Cortec® VpCI® systems: At left, unprotected sintered parts were corroding after 15 hours of ASTM D-1735 testing in a 100% relative humidity chamber at 100.4 °F (38 °C). At right, parts protected in dual system of VpCI®-146 paper inside a VpCI®-126 bag remained corrosion free after 427 hours in the same test conditions.

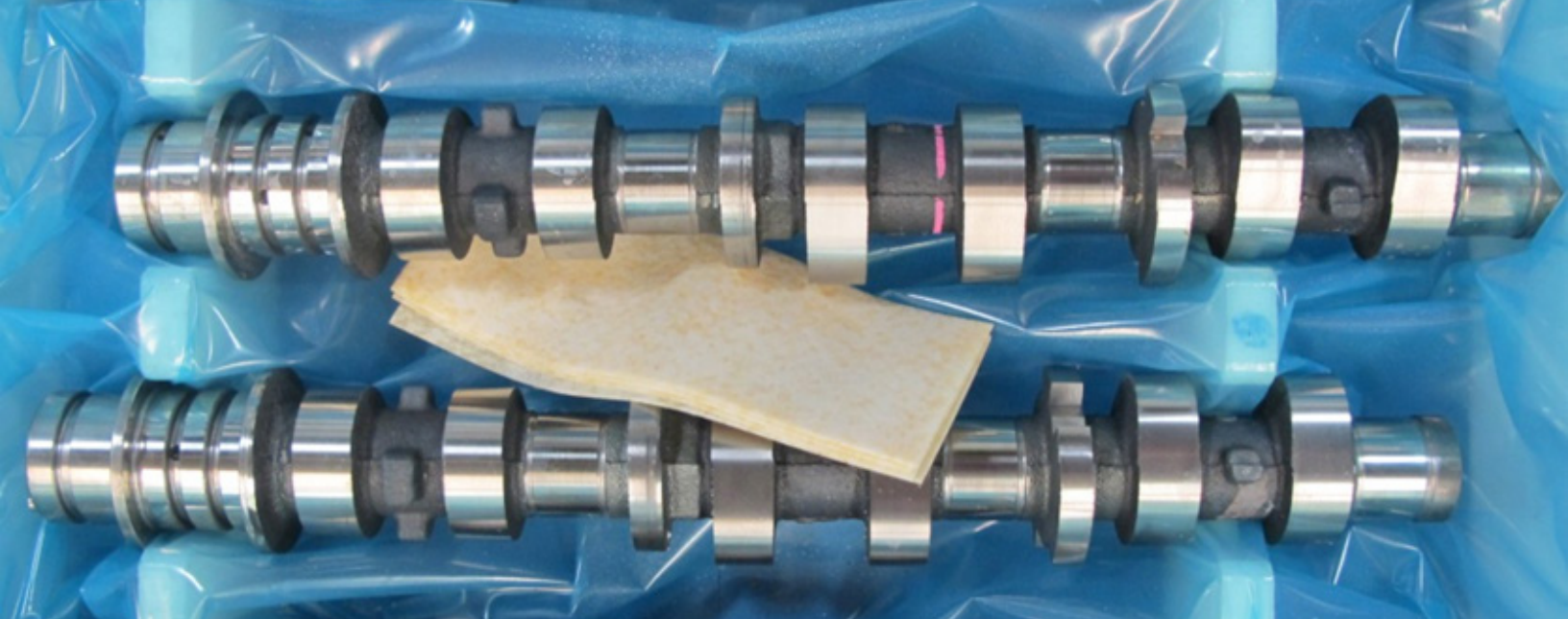


Stage 5: Assembling

Metal components are assembled into finished products and equipment, such as engines, boilers, vehicles, and countless other industrial or consumer products.

Corrosion Control Strategies:


- Clean off greasy rust preventatives with VpCI®-418 instead of highly toxic cleaners such as trichloroethylene (some Cortec® dry film rust preventatives may not need to be removed at all).
- Use VpCI® paper, film, and emitters for dry packaging protection during temporary storage and shipping.
- Use VpCI® rust preventatives for long-term storage or shipping when extra protection is needed.
- If required, remove in-process rust with VpCI®-422/423 and neutralize with VpCI®-418 cleaner.




VpCI® FOR BASIC METALS INDUSTRIES BUYER'S GUIDE

VpCI® Emitters			
Product	Description	Sizes Available	Applications
Bio-Pad®	Flexible corrosion inhibiting device constructed from biobased non-woven material. Provides multi-metal protection.	Contact Cortec® customer service for details.	Insert into packaging as an extra-strength source of VpCI® for protection of large volumes (protects up to 15 ft³ per ft² [4.5 m³/m²] of material).
EcoPouch®	EcoPouch® contains VpCI®-609 powder for corrosion protection of ferrous metals. Do not use with yellow metals.	Pouches are 6 x 10 x 0.5 in (15.3 x 25.4 x 1.3 cm), 50 per carton.	Insert into packages or metal powder drums as an extra-strength source of VpCI® for protection of large volumes (protects up to 1 m³ [35.3 ft³]).
VpCI®-130 Series Foam	Foam impregnated with Vapor phase Corrosion Inhibitors for dry protection of ferrous and non-ferrous metals. Approximately 10x more VpCI® per ft² (929 cm²) than VpCI® papers.	VpCI®-131: 2 x 10 in (5.08 x 25 cm); VpCI®-132: 10 x 10 in (25 x 25 cm); VpCI®-133: 1 x 1 in (2.5 x 2.5 cm) w/ adhesive back; VpCI®-136: 1x1 in (2.5 x 2.5 cm); VpCI®-137: 130 ft x 4.5 ft (39.6 m x 1.35 m).	Flexible packaging material for insertion with metal parts, coils, sheeting, especially where additional protection for large volumes is required. Works well with VpCI®-126 film used as package liner.
VpCI®-308 Pouches	Contains VpCI®-308 powder for corrosion protection of ferrous and yellow metals.	Pouches are 6 x 10 x 0.5 in (15.3 x 25.4 x 1.3 cm), 50 per carton.	Insert into packaging or metal powder drums as an extra-strength source of VpCI® for protection of large volumes (protects up to 35.3 ft³ [1 m³]).
VpCI®-309 Pouches	Contains VpCI®-309 powder for corrosion protection of ferrous metals. Not aggressive to copper.	Pouches are 6 x 10 x 0.5 in (15.3 x 25.4 x 1.3 cm), 50 per carton.	Insert into packaging or metal powder drums as an extra-strength source of VpCI® for protection of large volumes (protects up to 35.3 ft³ [1 m³]).

VpCI® Rust Preventatives

Product	Description	Sizes Available	Applications
BioCorr® 	Water-based, biobased dry film rust preventative that helps create a clean workplace and eliminate expensive oil disposal costs. Contains 64% USDA certified biobased content. Also available in super-concentrate (SC) version.	5 gallon (19 L) pails, 55 gal (208 L) drums, totes, and bulk. Also available in 12 oz (353 mL) EcoAir® compressed air spray cans, 12 per carton.	Temporary dry film rust preventative coating for metal sheets, coils, and machined parts.
EcoCorr™ Water-based Rust Preventative	A complete replacement for oil-based rust preventatives. Leaves a clear dry film suitable for robotic assembly of precision machined components. No need to remove in most cases.	5 gallon (19 L) pails, 55 gallon (208 L) drums, totes, and bulk.	Thin film coating for indoor storage of castings, tubular parts, gears, pumps, housings, sintered metals, bar and roll stock.
EcoFog® VpCI®-337	Water-based concentrate excellent for fogging of internal spaces of containers. Also provides excellent protection when used as an edge spray for shipping and storage applications. Contains Vapor phase Corrosion Inhibitors for multi-metal protection.	5 gallon (19 L) pails, 55 gallon (208 L) drums, totes, and bulk. Also available in 13 oz (384 mL) EcoAir® spray cans, 12 cans per carton.	Edge protection of dry steel coils, stacks, etc. Excellent on galvanized, aluminized, and cold-rolled steels.
VpCI®-325	Ready-to-use vegetable oil/solvent-based liquid for multi-metal corrosion protection. Provides excellent protection to high surface finishes, i.e., minimum span-gle galvanized steels.	16 oz (473 mL) EcoSpray™ bottles (12 per carton), 5 gal (19 L) pails, 55 gal (208 L) drums, totes, and bulk.	Ready-to-use thin-film oil-based rust preventative for full surface application. Replaces conventional slushing oils.
VpCI®-329/VpCI®-329 D	Oil-based rust preventative offers a tenacious film which clings to metal surfaces and releases Vapor phase Corrosion Inhibitors that adsorb onto the metal surface. VpCI®-329 D is ready-to-use version.	5 gallon (19 L) pails, 55 gallon (208 L) drums, totes, and bulk.	Edge spray for coils; fogging of metal compartments; dipping and storage of parts.
VpCI®-338	Waterborne corrosion inhibitor based on Vapor phase Corrosion Inhibitor Technology. Particularly effective on ferrous metals, aluminum, and tin-plate. Made with FDA approved ingredients for steel and tin plate according to CFR Title 21, § 178.3300.	5 gallon (19 L) pails, 55 gal (208 L) drums, totes, and bulk.	Excellent for edge treatment of aluminum, tin, and black plated coils and stacks.
VpCI®-377	Water-based concentrate dry film rust preventative for indoor protection of equipment and components. Protects ferrous and yellow metals.	5 gallon (19 L) pails, 55 gallon (208 L) drums, totes, and bulk. Also available in EcoAir® 12 oz (353 mL) compressed air spray cans, 12 cans per carton.	Thin film coating for dry storage of castings, tubular parts, gears, structural steel, sintered metals, bar and roll stock.

VpCI® Metalworking Fluids

Product	Description	Sizes Available	Applications
EcoLine® Cutting Fluid 	A multifunctional biobased concentrate with excellent lubricity for metal cutting operations. Contains 64% USDA certified biobased content. Replaces hazardous mineral oil.	Ready-to-use: 16 oz (455 mL); Concentrate: 5 gallon (19 L) pails, 55 gallon (208 L) drums, totes, and bulk.	Coolant/lubricant/corrosion inhibitor for heavy duty cutting, milling, turning, drilling, broaching, and other machining operations.
VpCI®-344	Waterborne corrosion preventative coolant for use in wet tempering of galvanized or cold-rolled steel. Also can be used in light stamping operations where some lubrication is required. Vapor phase action for difficult to reach surfaces.	5 gallon (19 L) pails, 55 gallon (208 L) drums, totes, and bulk.	Wet tempering fluid for hot rolled, cold rolled, and galvanized steel.
VpCI®-345	Premium water-based metalworking lubricant. Rancid stability and resistance to bacterial attack.	5 gallon (19 L) pails, 55 gallon (208 L) drums, totes, and bulk.	Machining coolant for castings, highly polished pieces, and other parts. Superior protection between machining operations and further processing or assembly. Protection of hot-rolled, cold-rolled, galvanized, and aluminized steel.
VpCI®-347	Multifunctional corrosion inhibitor/heavy-duty lubricant concentrate for metalworking operations. Resistant to rancid attack by bacteria.	5 gallon (19 L) pails, 55 gallon (208 L) drums, totes, and bulk.	Full surface treatment to replace chromate conversion coating on galvanized steel. Ideal for heavy-duty cutting, milling, turning, drilling, boring, broaching, and other machining operations.

VpCI® Packaging

Product	Description	Sizes Available	Applications
Anti-Skid Linerboard	Designed to prevent slippage of cases, cartons, and bags up to a twenty degree slide angle. Available with and without VpCI® protection.	Custom sizes and constructions available in 42 lb/1,000 ft² (205 g/m²) linerboard.	Liner for pallets, shipping containers, conveyers and floors where slippage is a concern.
Cor-Pak® EX VpCI® Film	High density polyethylene film extruded with Vapor phase Corrosion Inhibitors. Protects ferrous and non-ferrous metals. Excellent barrier. Recyclable.	Standard 1.25 mil (35 micron) sheeting: 36 in x 500 ft (91.4 cm x 152.4 m), 48 in x 500 ft x 1.25 mil (122 cm x 152.4 m); perfed on a roll: 12 in x 12 in (30.5 cm x 30.5 cm) (1,000 sheets), 18 in x 18 in (45.7 cm x 45.7 cm) (500 sheets), 36 in x 33 in (91.4 cm x 83.8 cm) (500 sheets). Custom: 1.0-1.25 mil (25-35 microns) starting at 9.5-48 in (24-122 cm).	Used for interleaving cut sheets and slit coils, and for wrapping/shrouding other palletized applications.

Cor-Pak® Linerboard	VpCI®-treated linerboard used as the inner liner of corrugated products. Fully recyclable.	Custom sizes and constructions available in 42 lb/1,000 ft ² (205 g/m ²) linerboard.	Packaging of single-use packs of spare parts and small items such as bearings, tools, and bolts.
Cor-Pak® VpCI® Corrugated PE Sheeting	Reusable corrugated high-density polyethylene corrosion protection sheeting with cushioning characteristics and PE strength. Fully recyclable.	Custom sizes—minimum 16 x 16 in (40.6 x 40.6 cm).	Packaging of metal parts, with cushioning and puncture resistance.
Cor-Pak® VpCI® Stretch Film	Corrosion inhibiting transparent stretch film holds protected parts securely in place. Does not leave residue. Puncture resistant. Recyclable.	Available in standard machine film sizes and gauges.	Stretch wrap used for coil wrapping, slit coil wrapping, sheets, etc.
CorrCap VpCI® Protective Cover	"Shower cap style" protective cover made from VpCI®-126 film. Elastic band allows for tight fit on vulnerable surfaces and is easy to securely apply.	Available in custom sizes. Please contact Cortec® for specific sizes and minimum order quantities.	Vapor phase Corrosion Inhibitor packaging that offers a secure fit over engines, brake systems, and other exposed metal parts.
CorrTainer®	Custom-made corrosion inhibiting cardboard boxes.	Custom sizes and constructions.	Storage or shipment of metal parts, especially small single-use packs of spare parts.
CorShield® Fabric	A multiple-layered protective fabric with a non-woven, soft inside layer. Protects valuable items from corrosion and mechanical damage. Recyclable.	Custom sizes up to 6.7 ft (20.5 m) wide.	Excellent for coil wrapping and palleting.
CorShield® VpCI®-146 Paper	VpCI® Kraft paper protects ferrous and non-ferrous metals against aggressive environments such as humidity, SO ₂ , H ₂ S, and galvanic corrosion of dissimilar metals. Fully recyclable/repulpable.	Roll stock 48 in x 200 yd (1.22 m x 183 m), 36 in x 200 yd (0.91 m x 183 m), 48 in x 200 yd (1.22 m x 183 m), and sheeting perfed on the roll 12 in x 12 in (0.31 m x 0.31 m). Custom sizes also available.	Used for interleaving and parts wrapping.
CorShield® VpCI®-146 Reinforced Paper	Premium corrosion inhibiting reinforced paper protects ferrous and non-ferrous metals. Excellent tear resistance.	Standard roll: 98.5 in x 350 ft (2.5 m x 105 m). Also available in custom sizes.	Packaging of metals with pointed, odd shapes or sharp edges: coils, wire reels, plate, bar, forgings, castings, stampings, springs, fasteners, tubes, pipes, nails, finished equipment.
Eco-Corr Film®	Biodegradable corrosion inhibiting film for vapor phase corrosion protection of ferrous and non-ferrous metals. Formulations contain up to 40% biobased content. Passes tests for disintegration and biodegradation in an aerobic composting environment per ASTM D6400-12.	Custom order product: 36 in (91.4 cm) and 48 in (122 cm) rolls and a wide variety of custom sizes and forms.	Storage and shipment of metal parts where biodegradable film is required.

EcoShield® VpCI®-144/VpCI®-144 Super Barrier	Premium moisture barrier paper with Vapor phase Corrosion Inhibitor protection. Fully recyclable.	Roll stock 36 in x 200 yd (0.91 m x 183 m), 48 in x 200 yd (1.22 m x 183 m). Custom sizes also available.	Packaging of metals when corrosion protection and extra moisture resistance is needed.
EcoWeave®	Woven polypropylene sheeting that offers extra strength, durability, corrosion protection, and reusability. Recyclable.	Standard and custom sizes. Contact Cortec® customer service for more info.	Export packaging of equipment, steel sheeting and flat stock, steel coils, pallets, heavy metal parts. Can be custom sewn for exact fit.
VpCI®-126	Translucent plastic films containing Vapor phase Corrosion Inhibitors for multi-metal protection. Heat sealable. Also available in zip-lock bags and shrink film. Recyclable.	Available in thicknesses of 1.5-10 mils (30-250 microns), widths of 3 in to 30 ft (7.6 cm-9.1 m).	Customizable corrosion inhibiting PE film for use as bags, sheeting, and tubing for specific needs.
VpCI®-148 Paper	Grease, oil, and solvent resistant corrosion inhibiting paper. Fully recyclable/repulpable.	Custom sizes and constructions.	Interleaving and wrapping of parts that require lubrication.



VpCI® Cleaners

Product	Description	Sizes Available	Applications
VpCI®-418/VpCI®-418 L/VpCI®-418 LM	Non-foaming heavy-duty alkaline cleaner and degreaser with flash rust protection. Liquid L (with silicates) and LM (without silicates) versions available.	VpCI®-418: 100 lb (45 kg) drums and bulk. VpCI®-418 L/LM: 5 gallon (19 L) pails, 55 gallon (208 L) drums, totes, and bulk.	Cleaning and degreasing of metal parts or hot rolled, cold rolled, and galvanized steels.



VpCI® Rinsing and Blasting Additives

Product	Description	Sizes Available	Applications
VpCI®-609	Water-soluble corrosion inhibitor powder that does not contain nitrites, phosphates, or heavy metals. 100% biodegradable. Do not use with yellow metals.	5 pound (2.3 kg), 50 pound (23 kg), and 100 pound (45 kg) moisture barrier bags packed in fiber-lined drums.	Flash rust inhibitor for rinse tanks, parts washers, and shot-blasting media.
VpCI®-611	Water-based rust preventative concentrate for water blasting applications. Contains no nitrite or phosphate inhibitors. Do not use with yellow metals.	5 gallon (19 L) pails, 55 gallon (208 L) drums, totes, and bulk.	Flash rust inhibitor for rinse tanks and parts washers.

VpCI® Rust Removers

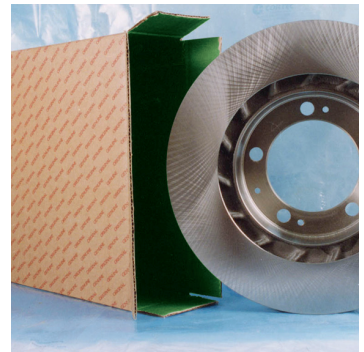
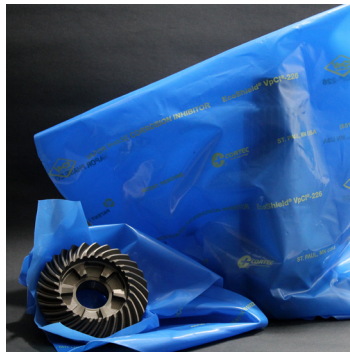
Product	Description	Sizes Available	Applications
VpCI®-422 	Environmentally friendly biodegradable rust and stain remover for ferrous and non-ferrous metals. Contains 92% USDA certified biobased content.	5 gallon (19 L) pails, 55 gallon (208 L) drums, totes, and bulk. Also available in EcoAir® 14 oz (413 mL) spray cans, 12 cans per carton.	Derusting of coils, sheets, machinery, and metal parts by dipping, brushing, and spraying. Replaces inorganic acids (i.e., phosphoric, sulfuric, etc.).
VpCI®-423 	Environmentally friendly biodegradable rust and tarnish remover gel excellent for application to vertical surfaces and hard to reach areas. Contains 91% USDA certified biobased content.	5 gallon (19 L) pails, 55 gallon (208 L) drums, totes, and bulk. Also available in EcoAir® 16 oz (473 mL) spray cans and EcoClean® 16 oz (473 mL) bottles, 12 per carton.	Derusting of coils, sheets, machinery, and metal parts by dipping, brushing, and spraying. Replaces inorganic acids (i.e., phosphoric, sulfuric, etc.). Good for vertical surfaces.

VpCI® MRO Products

Product	Description	Sizes Available	Applications
CorrLube™ VpCI® Lithium EP Grease	Lithium complex grease formulated with premium quality, severely hydrotreated base stock. High temperature stability and superior corrosion protection against salt water, brine, H ₂ S, and HCl.	14 oz (396 g) cartridges, 12 per carton; 5 gallon (19 liter) pails.	Lubrication and corrosion protection for lubricating sleeves, ball and roller bearings, vehicle/equipment chassis, and other metal-to-metal areas. Suitable for operating and layup conditions.
CorShield® VpCI®-368	Leaves a firm, wax-like film that can be removed by alkaline cleaners.	11 oz (312 g) aerosols, 6 per carton. Also available in 5 gallon (19 L) pails, 55 gallon (208 L) drums, totes, and bulk.	Removable coating for pipes, parts, wire rope, equipment, and other metals in harsh outdoor conditions.
EcoAir® Mold Release	Spray product forms a clear thin non-staining silicone coating on injection molds for easier release of rubber, plastic, or metal castings.	10-14 oz (284-397 g) air powered spray cans, 12 per carton.	Dual function mold release providing lubrication and corrosion protection to injection molds and other metal surfaces.
EcoLine® All Purpose Lubricant 	All purpose lubricant with friction modifier and extreme pressure additive. Leaves behind a high-performance corrosion inhibiting layer. Contains 93% USDA certified biobased content.	16 oz (473 mL) spray bottles, 12 per carton; 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes, and bulk.	Loosens frozen and rusted parts. Extends life of machinery parts by reducing friction and wear. Cleans, lubricates, and protects.
EcoLine® Biobased Grease 	Multipurpose biobased grease with superior corrosion protection properties. Contains 86% USDA certified biobased content. Contains Vapor phase Corrosion Inhibitors.	14 oz (396 g) cartridges, 12 per carton; 5 gallon (19 liter) pails, and 55 gallon (208 liter) drums.	Lubrication and corrosion protection for lubricating sleeves, ball and roller bearings, vehicle/equipment chassis, and other metal-to-metal areas. Contact and vapor phase protection.

EcoSpray™ Rust Blocker VpCI®-389	Water-based coating to rust-proof iron, steel, and other ferrous metals. An environmentally friendly replacement to oil-based products.	16 oz (473 mL) bottles, 12 per carton. Also available in 5 gallon (19 L) pails, 55 gallon (208 L) drums, totes, and bulk.	Indoor and outdoor corrosion protection for equipment and metal parts.
ElectriCorr® VpCI®-238	An electronic cleaner containing Vapor phase Corrosion Inhibitors. Forms a thin protective film that does not interfere with conductivity.	9.45 oz (268 g) aerosols, 6 per carton. Also available in EcoSpray™ 16 oz (473 mL) bottles, 12 bottles per carton; 5 gallon (19 L) pails, 55 gallon (208 L) drums, totes, and bulk.	Cleans and protects electrical and electronic contacts and components from corrosion.
ElectriCorr® VpCI®-239	An electronic cleaner containing Vapor phase Corrosion Inhibitors for harsh conditions. Forms a thin protective film that does not interfere with conductivity.	9.45 oz (268 g) aerosols, 6 per carton; 5 gallon (19 L) pails, 55 gallon (208 L) drums, totes, and bulk.	Cleans and protects electrical and electronic contacts and components from corrosion in harsh conditions.
VpCI®-369/VpCI®-369 D/VpCI®-369 M	Oil-based barrier coating that provides extended outdoor multi-metal protection. Leaves a translucent, oily film that is scratch resistant and self healing. Product can be diluted with oil. Easily removed with common cleaners. Prediluted (D) version available. VpCI®-369 M qualified to MIL-PRF-16173E (Grade 2).	5 gallon (19 L) pails, 55 gallon (208 L) drums, totes, and bulk. Also available as Cor-Shield® VpCI®-369 11 oz (312 g) aerosols, 6 per carton.	Edge treatment of oiled coils and stacks for export shipment and outdoor storage of hot rolled, cold rolled, galvanized, and aluminized steels. Lubrication/protection of gears and wire rope. Stamping/drawing oil additive.

Note: Please allow extra time when ordering custom products



Cortec® Corporation



Quality Management System (ISO 9001 Certified)

World Class Product Offerings

An innovative producer of leading edge products.

World Class Customer Service

A positive, long-lasting impression through every link of our company.

World Class Environmental Commitment

Cortec® commits to continued development of processes and products that are useful, non-hazardous to the environment, and recyclable whenever possible.

An Ethical and Respectful Company Culture

Respect and treat our colleagues, customers, and vendors as we would our own family members.



Environmental Management System (ISO 14001 Certified)

Cortec's strong environmental concern is demonstrated in the design and manufacturing of products that protect materials of all kinds from environmental degradation. A strong commitment to produce recyclable products made from sustainable resources has been and will be our future policy. This brochure can be recycled.



Laboratory Accreditation (ISO/IEC 17025)

Cortec® Laboratories, Inc. is the only lab in our industry that has received ISO/IEC 17025 Certification, which ensures quality in recording and reporting data, as well as calibrating equipment within the laboratory.



LIMITED WARRANTY

All statements, technical information and recommendations contained herein are based on tests Cortec® Corporation believes to be reliable, but the accuracy or completeness thereof is not guaranteed.

Cortec® Corporation warrants Cortec® products will be free from defects when shipped to customer. Cortec® Corporation's obligation under this warranty shall be limited to replacement of product that proves to be defective. To obtain replacement product under this warranty, the customer must notify Cortec® Corporation of the claimed defect within six months after shipment of product to customer. All freight charges for replacement product shall be paid by customer.

Cortec® Corporation shall have no liability for any injury, loss or damage arising out of the use of or the inability to use the products.

BEFORE USING, USER SHALL DETERMINE THE SUITABILITY OF THE PRODUCT FOR ITS INTENDED USE, AND USER ASSUMES ALL RISK AND LIABILITY WHATSOEVER IN CONNECTION THERE WITH.

No representation or recommendation not contained herein shall have any force or effect unless in a written document signed by an officer of Cortec® Corporation.

THE FOREGOING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE. IN NO CASE SHALL CORTEC® CORPORATION BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.



4119 White Bear Parkway, St. Paul, MN 55110 USA
Phone (651) 429-1100, Fax (651) 429-1122
Toll Free (800) 4-CORTEC, E-mail productinfo@cortecvci.com
www.CortecVCI.com
www.cortecmetals.com

Revised: 03/26/18. Supersedes: n/a

Cortec®, BioCorr®, BioCortec®, BioCushion®, Boiler Lizard®, Closed Loop Toad®, Cooling Tower Frog®, VpCI®, VpCI® Film Color of Blue®, VpCI-126®, VpCI-609®, VpCI-137®, VmCI-307®, EcoWorks®, EcoAir®, Eco-Corr®, EcoLine®, EcoClean®, EcoShield®, EcoWeave®, EcoSpray®, EcoCoat®, EcoEmitter®, EcoSol®, Eco-Tie®, Eco-Card®, Eco-Shrink®, EcoWrap®, Eco Film®, Cor-Mitt®, Cor-Pak®, CorShield®, CorSol®, Corrosorb®, CorWipe®, CorVerter®, Cor Seal®, CorLam®, Cor-Fill®, Corlube®, CRI®, Desicorr®, Electricorr®, GalvaCorr®, Super Corr®, HPRS®, CRI®, MCI®, MCI Grenade®, Milcorr®, Nano VpCI®, and Rust Hunter® are trademarks of Cortec® Corporation.

©Cortec Corporation 2018. All rights reserved

Distributed by: