



CORTEC
CORPORATION

Environmentally Safe VpCI®/MCI® Technologies

VpCI® Corrosion Protection for Basic Metals Industries





CORTEC® FORNECENDO SOLUÇÕES VpCI® AO REDOR DO MUNDO

A Cortec® Corporation fornece soluções VpCI® contra corrosão para indústria metalúrgicas ao redor do mundo. Não importa se a corrosão acontece nos materiais brutos, durante os processos ou no transporte, a Cortec® está pronta para resolver o problema e fornecer uma solução prática e integrada com seu extenso portfólio de produtos VpCI®. A Cortec® age como uma seguradora fornecendo proteção contra futuras perdas por conta da corrosão. Investindo nas soluções contra corrosão hoje, as indústrias se salvam de grandes perdas no futuro.

Pare a corrosão, não a produção!!

A corrosão pode acontecer a qualquer momento em indústrias que produzem, processam ou montam peças metálicas. Ela resulta em perda de tempo, desperdício de materiais, devolução de produtos e clientes insatisfeitos. Prevenir a corrosão do princípio ao fim, permite que as indústrias metalúrgicas evitem estes problemas, mantenham sua cadeia de fornecedores rodando e promovam relacionamentos saudáveis com os clientes.

Corte custos, economize tempo, considere o meio ambiente

As soluções VpCI® Cortec® de controle total da corrosão fornecem alternativas convenientes para proteção contra corrosão afim de cortar custos, economizar tempo e reduzir o impacto ambiental. Cortec® substitui muitos preventivos base petróleo com opções de base água ou biológica e oferece materiais recicláveis para embalagem que inibem a corrosão e podem substituir os inconvenientes preventivos de corrosão comuns. Os produtos são fáceis de aplicar e remover, aumentando a eficiência dos ciclos dos processos, cortando custos de mão de obra e reduzindo reclamações por ferrugem. Os produtos VpCI® MRO (Manutenção, Reparo e Operações) reduzem custos porque estendem a vida útil de serviço dos ativos.

Inibidores de Corrosão fase Vapor: Uma solução inovadora para o controle da corrosão

Muitos produtos Cortec® são potencializados com Inibidores de Corrosão de fase Vapor. Esta tecnologia solta vapores inibidores de corrosão que, quando aprisionados em um espaço fechado, condensam na superfície do metal e formam uma barreira molecular que protege contra a corrosão. Isto melhora a habilidade dos produtos de fornecer proteção em superfícies complexas ou espaços de difícil acesso. Ainda, minimiza a necessidade de aplicação e/ou remoção de preventivos de corrosão. Não é necessária nenhuma limpeza especial para remover os Inibidores de Corrosão de fase Vapor antes de uma pintura, chapeamento, estampagem, soldagem ou conformação. A Cortec® também oferece uma grande variedade de robustos preventivos contra corrosão e revestimentos removíveis quando a logística não é ideal para proteção na fase vapor. Contate a Corr Solutions Brasil para mais detalhes.

INCORPORANDO AS SOLUÇÕES VpCI® CORTEC® CONTRA CORROSÃO NOS CINCO ESTÁGIOS DAS INDÚSTRIAS METALÚRGICAS

Estágio 1:

Conversão do minério em metal fundido (ferro, cobre, alumínio, etc.

Estratégias de Controle da Corrosão:

- Aplicar produtos VpCI® MRO (Manutenção, Reparo e Operações)



Estágio 2:

Transformando metal fundido em chapas, barras, ou metal em pó, etc.

Estratégias de Controle da Corrosão:

- Insira emissores e pacote VpCI® nos barris de metal em pó para estocagem e transporte.
- Envolva chapas, barras e outras peças metálicas com papel ou filme plástico VpCI® para estocagem e transporte.
- Use os preventivos de corrosão VpCI® de acordo com a necessidade para armazenagem e transporte, eliminando a necessidade de retrabalho.

Estágio 3:

O metal é laminado, forjado, fundido ou sinterizado em peças grosseiramente formadas.

Estratégias de Controle da Corrosão:

- Use os limpadores, lavadores ou aditivos VpCI® para jateamento para evitar oxidação instantânea na limpeza de peças ou equipamentos.
- Use os papéis, plásticos e emissores VpCI® para embalar a seco e proteger durante estocagem e transporte.
- Use os preventivos de corrosão para estocagem ou transporte de longo prazo quando proteção extra é necessária.
- Remova oxidação pré-existente ou instantânea com VpCI®-422 ou VpCI®-423 e neutralize com o limpador VpCI®-418.



Estágio 4:

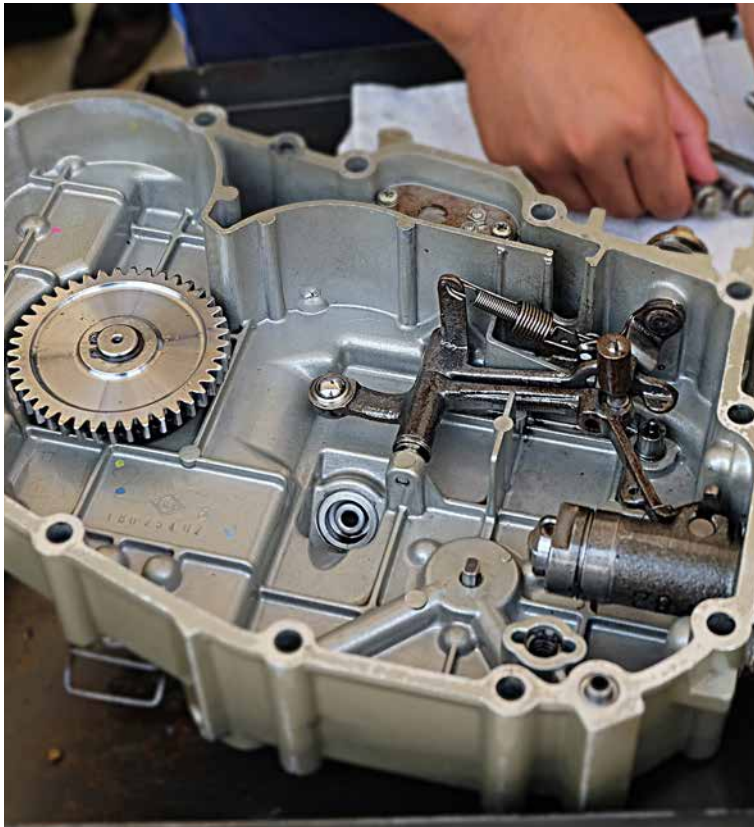
O metal passa por processos de usinagem, afiação, chapeamento, perfuração, laminação a frio ou formação para chegar a componentes metálicos mais precisos.

Estratégias de Controle da Corrosão:

- Proteger equipamentos de metalurgia e peças de trabalho com os fluidos de metalurgia VpCI®.
- Limpar, desengraxar peças metálicas com os limpadores inibidores de oxidação instantânea VpCI®.
- Remover ferrugem incidente com VpCI®-422 ou VpCI®-423. e Neutralizar com o limpador VpCI®-418.
- Substituir óleos minerais por VpCI®-344 para reduzir fricção e corrosão durante a têmpera molhada.
- Aplicar VpCI®-325 ou VpCI®-329 D em bobinas de aço após a decapagem e antes de rebobinar
- Borrifar as laterais das bobinas com VpCI®-337 ou VpCI®-329 D antes do transporte, para proteger superfícies internas.
- Intercalar e envolver metais recém em papéis, plásticos VpCI®. Adicione emissores VpCI® se proteção extra for necessária para grandes volumes.
- Substitua preventivos de corrosão perigosos base óleo com inibidores de corrosão de filme seco como BioCorr® (base biológica) ou VpCI®-377 (base água).
- Melhore ainda mais a proteção para condições extremas de transporte para exportação combinando o uso de inibidores de corrosão, papéis, plásticos e emissores VpCI®.



Maximize a proteção combinando sistemas VpCI® Cortec®: Na esquerda peças sinterizadas desprotegidas estavam corroendo depois de 15 horas submetidas ao teste ASTM D-1735 em 100% de umidade relativa e 38 ° C. Na direita, peças protegidas em um sistema duplo combinando o uso do papel VpCI®-146 dentro de um saco VpCI®-126, ficaram totalmente livres de corrosão durante 427 horas nas mesmas condições de teste.

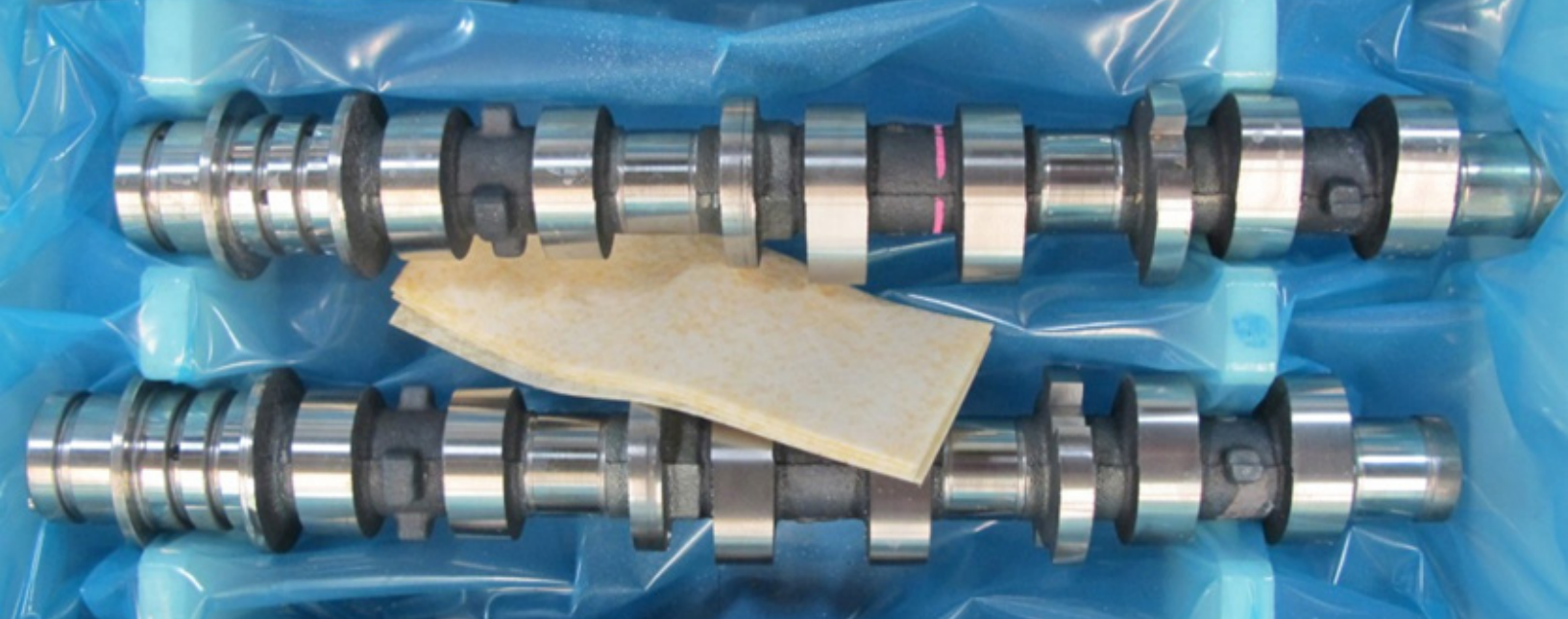


Estágio 5:

Peças metálicas são montadas para se tornarem produtos finalizados e equipamentos, como motores, caldeiras, veículos e incontáveis outros produtos industriais e para consumo.

Estratégias de Controle da Corrosão:

- Limpe preventivos de corrosão gordurosos com VpCI®-418 ao invés de limpadores altamente tóxicos como tricloroetileno (alguns inibidores de corrosão de filme seco Cortec® não precisam ser removidos)
- Use papéis, plásticos e emissores para proteção seca em embalagens para estocagem ou transporte.
- Use inibidores de corrosão VpCI® para estocagem ou transporte de longo prazo quando proteção extra é necessária.
- Se necessário, remova a oxidação dos processos com VpCI®-422/423 e neutralize com o limpador VpCI®-418.



GUIA DE COMPRAS VpCI® PARA INDÚSTRIAS METALÚRGICAS

EMISSORES VpCI®			
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]).

PREVENTIVOS/INIBIDORES DE CORROSÃO VpCI®

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.

FLUIDOS DE METALURGIA VpCI®

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.

EMBALAGENS VpCI®

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.

LIMPADORES VpCI®

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.

ADITIVOS PARA LAVAGEM/JATEAMENTO VpCI®

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.

REMOVEDORES DE ÓXIDO VpCI®

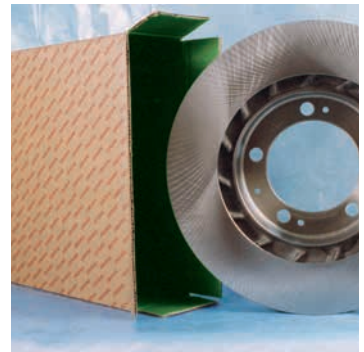
Product	Description	Sizes Available	Applications
VpCI®-422 	Environmentally friendly biodegradable rust and stain remover for ferrous and non-ferrous metals. Contains 92% USDA certified biobased content.	5 gallon (19 L) pails, 55 gallon (208 L) drums, totes, and bulk. Also available in EcoAir® 14 oz (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.

PRODUTOS MRO VpCI®

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.

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