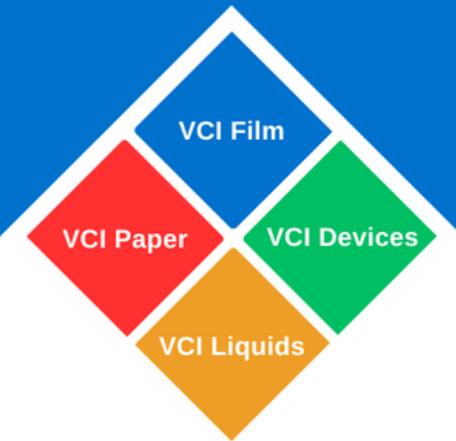


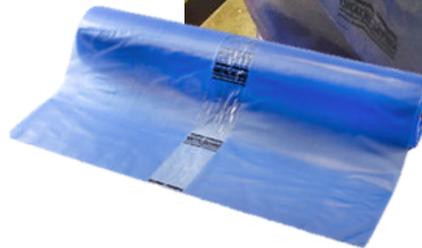
CORROSION INHIBITOR (VCI) PACKAGING FOR INDUSTRY



CORROSION PREVENTION SOLUTIONS FOR METAL MARKETS

VCI Packaging for protecting ferrous metals,
multi-metals, and specialty metals:

- *Poly films: Sheeting & bags, stretch & shrink*
- *Paper: Rolls & pre-cut sheets*
- *Emitters: Disks, foam, powders, chips*
- *Rust preventive liquids*
- *Rust removers*



DAUBERT CROMWELL

The Leading Name in Corrosion Prevention®

Headquarters: Daubert Cromwell | 12701 South Ridgeway Avenue | Alsip, IL 60803 USA
Tel: +1 (708) 293-7750 | 1-800-535-3535 | E-mail: info@daubertcromwell.com | www.daubertcromwell.com

For more than 90 years, quality manufacturers have relied on Daubert Cromwell VCI products to prevent corrosion-related damage to valuable metals. Daubert Cromwell's innovative, cost-effective solutions ensure efficient, high-quality corrosion protection from manufacture, through transport, to storage. Proven quality as well as customer-oriented service and packaging solutions have earned its reputation as "The Leading Name in Corrosion Prevention®."

Daubert Cromwell is headquartered in a manufacturing center in suburban Chicago, with operations also in Mexico, Brazil, Europe and China.

Our Mission

Daubert Cromwell will strengthen and build its core competency as a specialist in corrosion prevention packaging for industry with products and service that satisfy the evolving requirements of our global customers. Through consistent quality, service, innovative and customized corrosion solutions, Daubert Cromwell will be industry's first choice for protecting metal parts and assemblies during shipping and storage.

We will do this by:

- Reducing the cost of corrosion for our customers through the use of high quality, well performing, paper and plastic packaging treated with volatile corrosion inhibitors and by applying best-in-class rust preventive liquids and coatings.
- Deploying our depth of experience and industry-leading products around the world, wherever our customers or their suppliers do business, wherever they need to protect their products.
- Building on our 90-year history as an industry leader by continuing to provide the most valued, dependable protection against corrosion with world class products, industry-leading processes, delivered by talented and dedicated people.
- By focusing on our customers' needs, we will deliver innovative and customized corrosion solutions, drive growth, deliver strong returns for our shareholders, and provide our employees with a rewarding place to work.



How do VCI products work?

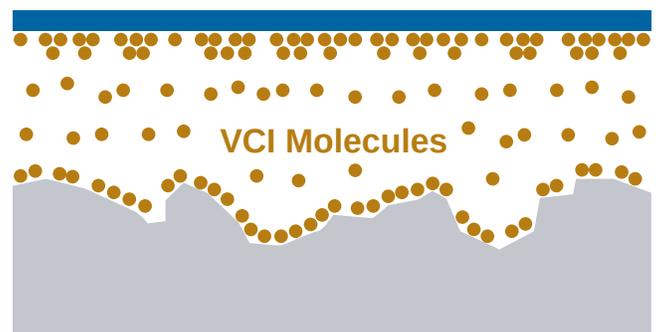
How VCI Works

When metals are wrapped or packaged in VCI, the vapors saturate the packaging environment and form a protective molecular layer on the surface of the metal.

This protective layer prevents moisture, salt, dirt, oxygen and other materials from depositing on the metal and causing corrosion. Simply store or ship metal parts in VCI packaging. When the parts are unwrapped, the protective layer immediately begins to dissipate. The metal parts are clean, corrosion-free and ready to use. No washing, dipping or cleaning is necessary.

- Long lasting, effective protection against corrosion
- Easy, clean, economical application options
- Easy storage

VCI Carrier - Film, Paper, Emitters, Liquids



- Lower per unit packaging
- Packaging flexibility
- Reduced processing time

CONTENTS

COMPANY, PRODUCTS, MARKETS

Pages 2-3

- Company Profile, Our Mission, How VCI Works

VCI FILM

Pages 4-5

- **Premium Metal-Guard®**, **Premium Metal-Guard RC** multi-metal protection, and with recycled content
- **Clear Pak® 5000**, **Clear Pak BIO**, **Clear Pak 5000 RC** nitrite-free multi-metal & aluminum protection, with recycled content
- **Metal-Guard®**, **Metal-Guard FF** for wide range of ferrous and non-ferrous metals
- **Ferro-Film®** for ferrous metals
- **Nox-Rust Poly Wrap®** all-poly fabric for reinforced strength and protection of ferrous/non-ferrous metals
- **Silver-Guard®** anti-tarnish film
- **Premium Metal-Guard® X-O Wrap Shrink Film** exterior, outdoor, heavy duty protection of metal surfaces



VCI PAPER

Pages 6-7

- **Nox-Rust® Vapor Wrapper®** (including military-approved papers) - ferrous metal protection
- **Protek Wrap®** ferrous metal corrosion inhibitor
- **Ferro-Galv™**, **Ferro-Pak™** specially formulated for galvanized metal applications
- **Coppertex®** protects copper, brass, bronze and other copper alloys
- **Silver Saver®** Anti-tarnish paper for silver, gold, and noble metals
- **Alumitex®** Corrosion protection for aluminum, galvanized steel and lead alloys
- **Uniwrap® MPI** multi-purpose protection for ferrous/non-ferrous metals
- **Reinforced papers: Coil Wrap, Scrim, Steel Wrap** maximum strength & tear resistance for heavy duty applications



VERSIL-PAK™

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- Flexible, greaseproof, waterproof wax barrier wrap for severe environments.



VCI DEVICES

Page 9

- **Daubrite® Emitters, Foam, Chips, Powders, and Pouches** VCI devices give corrosion protection packaging an important additional dimension



RUST PREVENTIVE LIQUIDS

Page 10

- **Nox-Rust® & Safecote®** rust preventive liquids, oils and coatings
- **Rust Revenge®** rust removing liquid



ENVIRONMENTALLY FRIENDLY PRODUCTS

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- Clean, Effective, Environmentally Friendly VCI Film, Paper, and Rust Preventive Liquids

CORROSION PROTECTION SOLUTIONS FOR THE METAL PROCESSING INDUSTRY

Heavy Equipment • Metalworking • Export • Aerospace & Military • Automotive • Energy

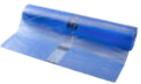
CORROSION PREVENTIVE (VCI) FILMS

Quick Reference Guide		Premium Metal-Guard®	PMG X-O Wrap Shrink Film	PMG Masking Film	PMG Stretch Film	PMG ESD	PMG RC	Clear Pak® 5000	Clear Pak® BIO	Clear Pak® RC	Nox-Rust® Poly Wrap	Silver-Guard®	Ferro-Film®	Metal-Guard® FF	
Performance Features	Effective Both Sides	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓		
	Heat Sealable	✓	✓			✓	✓	✓	✓	✓		✓	✓	✓	
	Transparent	✓		✓	✓	✓	✓	✓	✓	✓		✓	✓		
	Available as Bags: Flat, Zipper, Gusseted; Individually Cut and Bags on a roll.	✓					+	+	+	+		+	+	+	
	Shrinkable	+	✓					✓	+	+	+				
	Flame Retardant According to DIN 4102-B2	+							+	+				+	
	UV Protection	+	✓					+	+	+	+				
	Suitable for Outdoor Use		✓												✓
	Static dissipative (ESD) Surface resistance 109 – 1010 Ω	+					✓		+	+					
Environment	Made with >30% Recycled Content						✓			✓					
	Bio-based								✓						
	Fully Recyclable	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	100% Nirate-Free							✓	✓	✓	✓	✓	✓	✓	
Approvals	RoHS Compliant	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	REACH Registered	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Prop 65 Compliant	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	TRGS 615 & TRGS 900 Compliant	✓	✓	✓	✓	✓	✓	✓	✓	✓					
	OEM Approved	✓	✓		✓	✓	✓	✓	✓		✓	✓		✓	

✓ Standard + Optional

Premium Metal-Guard and Clear Pak transparent films are standards in Daubert blue; other colors available. CPBIO film is tinted violet; Ask about other constructions such as bubble bags and pre-opened bags on a roll; options such as high strength, anti-slip, and custom print. Contact us at Tel. +1 (708) 293-7750 | Email: info@daubertcromwell.com

CORROSION PREVENTIVE (VCI) FILMS

	PRODUCT	DESCRIPTION	DELIVERY FORMS	THICKNESS	
FERROUS / NON-FERROUS	Premium Metal-Guard® <i>Multi-Metal Protection</i>	Heat sealable, LDPE film with proprietary blend of contact and volatile corrosion inhibitors in the film. Standard Daubert blue; other colors by custom order.	Sheeting; tubing; recloseable, flat and gusseted bags; stretch film; shrink film with UV properties, masking film; high strength options.	3-6 mil standard (75µ - 150µ)	
	PMG Bags <i>Multi-Metal Protection</i>	Multi-metal protection in convenient bags on a roll and individually cut. Various sizes in stock.	Flat, gusseted, perf'd on roll, and zipper (recloseable).	4 mil (100µ) standard	
	PMG Stretch Film <i>Multi-Metal Protection</i>	Flexible, durable stretch film for transport stabilization, protection against moisture and corrosion. Excellent cling.	Hand stretch and machine stretch rolls. Available in various widths and custom colors.	80 and 100 gauge (20µ - 25µ) standard	
	PMG Shrink Film <i>Multi-Metals</i>	Transparent, heat sealable, shrinkable VCI film. UV-stable, puncture-resistant. Protection against moisture, dust and dirt.	Wide width rolls for wrapping large and irregularly shaped equipment outdoors.	6 mil (150µ) standard	
	PMG X-O Wrap Shrink Film <i>Multi-Metals</i>	Opaque, heat sealable, shrinkable VCI film. UV-stable, puncture-resistant. Protection against moisture, dust and dirt.	Wide width rolls for wrapping large and irregularly shaped equipment outdoors.	10 mil (250µ)	
	PMG Masking Film <i>Multi-Metals</i>	Self-adhesive VCI film protects against scratches and corrosion, and leaves no residue on the metal surface	Narrow width rolls are easy to use in hand-wrap applications.	2 mil (50µ) standard	
	PMG-RC 30% (min.) Recycled Content <i>Multi-Metals</i>	Contains 30% (min.) recycled material. Provides protection during in-process manufacturing, transport and indoor storage. Meets EU plastic tax mandate.	Sheeting, bags, and custom constructions	4 mil (100µ) standard	
	Nox-Rust® Poly Wrap <i>Carbon steel, galvanized steel, aluminum, brass</i>	All-poly fabric for wrapping steel coils, sheeting, pallets and equipment. Woven polyolefin structure (8x8 weave) impregnated with VCI. Good deadfold. Recyclable.	Up to 84" wide		
	Clear Pak® 5000 Nitrite-Free Film <i>Ferrous, multi-metals, aluminum</i>	Nitrite-free VCI film for protection of ferrous metals as well as multi-metals and aluminum.	Sheeting, bags and custom constructions.	4 mil (100µ) standard	
	CP5000-RC 30% (min.) Recycled Content <i>Ferrous, multi-metals, aluminum</i>	Contains 30% (min.) recycled material. Provides protection during in-process manufacturing, transport and indoor storage. Meets EU plastic tax mandate.	Sheeting, bags and custom constructions.	4 mil (100µ) standard	
FERROUS	CP BIO Plant-based, Nitrite-Free <i>Ferrous metals</i>	Sustainable VCI film made from renewable raw materials. Free of nitrites and secondary amines. Protection for ferrous metals.	Sheeting, bags and custom constructions.	4 mil (100µ) standard	
	Ferro-Film® <i>Ferrous metals</i>	Heat sealable LDPE film with contact and volatile corrosion inhibitors blended in the film. Standard green; other colors and thicknesses by custom order.	Sheeting, bags and custom constructions.	4 mil (100µ) standard	
	Metal-Guard FF Barrier Film <i>Ferrous Metals</i>	Heavy-duty foil barrier film creates an effective packaging environment for metal parts, machinery and equipment in harsh climates and during export. Heat sealable, waterproof, greaseproof and flexible.	Tear-resistant, heat-sealable, effective VCI barrier film for ferrous metals. Also available as Metal-Guard FF Light.	8 mil (200µ) <i>Metal-Guard FF Light: 4 mil (100µ)</i>	
SPECIALTY	X-O Wrap Shrink Film <i>Ultraviolet Protection</i>	Heavy-duty, heat shrinkable polyethylene film with UV stabilizer. Suitable for outdoor applications for protection against moisture, dust and dirt.	Available in wide width rolls	6- 10 mil (150-250µ) standard	
	Silver-Guard® <i>Anti-Tarnish</i>	Anti-tarnish protection for silver and silver-plated surfaces. Heat-sealable. Nitrite-free. Sulfur-free.	Sheeting and bags	3 mil (75µ)	

CORROSION PREVENTIVE (VCI) PAPER

Selecting the Right VCI Paper

Daubert Cromwell offers a wide range of VCI packaging papers to meet the unique anti-corrosion protection requirements of metal fabricators, suppliers, shippers and end users.

- Using raw stock papers from suppliers who are part of the Sustainable Forestry Initiative
- Odorless, safe, non-toxic, recyclable
- VCI protection sets up quickly
- Easy to use

The type of VCI paper you choose depends on the metal to be protected. Daubert Cromwell has different formulations specifically for:

- Ferrous metals, including those requiring military-specified VCI paper packaging
- Galvanized
- Multi-metals, and ferrous/non-ferrous combinations
- Specialty metals such as copper, silver, and aluminum

Broad Selection

- Rolls, sheeting, bags
- Covers, liners, die-cut and fabricated shapes
- Custom cuts
- Chips in any size and VCI formulation
- Reinforced and laminated constructions

Custom Printing

Daubert Cromwell can custom print your VCI packaging paper with your logo for easy brand identification. Your logo, instructions, or message appears in crisp, clear detail.



Daubert Cromwell is a US Government approved manufacturer of packaging qualified for critical US Military operations



VCI packaging for gears, bearings



VCI paper or sheets for small parts and bulk goods



VCI specialty metals protection

Reinforced VCI Paper



Silver Saver®
Anti-Tarnish
Packaging



CORROSION PREVENTIVE (VCI) PAPER

		PRODUCT	DESCRIPTION	STANDARD
FERROUS METALS	PROTEK WRAP®	PW30, PW30H	For general protection of ferrous metals. Natural kraft saturated both sides with corrosion inhibitor formulation for ferrous metals in storage and shipment. PW30H is nitrite-free.	 30 lb (49 g/m ²)
		PW32, PW32H	PW32H is nitrite-free.	35 lb (57 g/m ²)
		PW60, PW60H	PW60H is nitrite-free.	60 lb (98 g/m ²)
		PW33, PW33H	Natural kraft with specially formulated wax for enhanced molding and barrier properties. Ideal for hand-wrapping small parts. PW33H is nitrite-free.	35 lb (57 g/m ²)
	40PCF 60PCF	Natural kraft coated with polyethylene for moisture barrier protection and package strength. Nitrite-free.	40 lb (65 g/m ²) 60 lb (98 g/m ²)	
	NOX-RUST® VAPOR WRAPPER®	VW35D, VW35DH	Long-term protection of ferrous metals including steel and iron. Natural kraft saturated both sides with premium corrosion inhibitor formulation. VW35DH is nitrite-free.	 35 lb (57 g/m ²)
		VW60D, VW60DH	Natural kraft provides excellent strength and tear resistance. Ideal for packaging heavier parts. VW60DH is nitrite-free.	60 lb (98 g/m ²)
		VW100DH	Two 40 lb (65 g/m ²) natural kraft sheets laminated with polyethylene. Strong, tear resistant. Excellent moisture barrier. Nitrite-free.	40 lb (65 g/m ²) x2 (plus poly)
		PC55D PC75D	Natural kraft coated with polyethylene. Provides moisture barrier. Use PC75D when greater tear strength and puncture resistance are required. Nitrite-free.	40 lb (65 g/m ²) 60 lb (98 g/m ²)
		MILITARY GRADES	4060	Natural kraft. On the US Dept. of Defense QPD for MIL-PRF-3420. Qualified as Light duty, Class 3, Style A. NSN 8135-00-810-0481.
	VW60H		On the US Dept. of Defense QPD for MIL-PRF-3420. Nitrite-free natural kraft. Qualified as Medium duty, Class 2, Style A. NSN 8135-00-664-4012.	60 lb (98 g/m ²)
	7090		Natural kraft. On the US Dept. of Defense QPD for MIL-PRF-3420. Qualified as Heavy duty, Class 1, Style A. NSN 8135-00-664-4010.	 70 lb (114 g/m ²)
	FERRO-PAK® FERRO-GALV™	30A, 30F 40W	Natural kraft saturated both sides. Specially formulated for ferrous metal applications. Nitrite-Free. Natural kraft saturated both sides. Nitrite-Free. Available in 60 lb. paper and poly coated.	30 lb (49 g/m ²) 40 lb (65 g/m ²)
		30FG	Natural kraft specially formulated for galvanized metal applications. Also available in 35 lb, 40 lb, and 60 lb natural kraft papers.	30 lb (49 g/m ²)
		Woven Ferro-Galv	Natural kraft laminated to woven polyethylene/polypropylene, VCI treated. Provides maximum strength and tear resistance.	40 lb (54 g/m ²)
		MULTI-METALS	UNIWRAP® MPI	UW30MPI
UW33MPI	Wax coated natural kraft has excellent moldability and barrier properties against moisture and condensation.			35 lb (49 g/m ²)
UW200	Natural kraft, multi-purpose corrosion inhibitor for combination ferrous/non-ferrous metals. Nitrite-free.			35 lb (57 g/m ²)
40PCMPI 60PCMPI	Natural kraft coated with polyethylene for moisture barrier protection and package strength.			40 lb (65 g/m ²) 60 lb (98 g/m ²)
SPECIALTY	Copper	Coppertex®	Protects copper, brass, bronze, and other copper alloys. Use as a wrap and for interleaving. Nitrite-free natural kraft.	 35 lb (57 g/m ²)
	Silver	Silver Saver®	Prevents tarnish on silver, gold and noble metals. Nitrite-free , sulfur-free bleached kraft.	 40 lb (65 g/m ²)
	Aluminum	Alumitex®	Natural kraft. Protects aluminum, mild carbon steel, zinc and zinc galvanized. Nitrite-free.	40 lb (65 g/m ²)

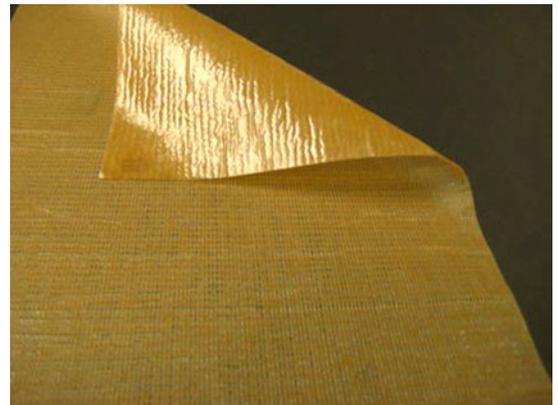
VERSIL-PAK™

Flexible, greaseproof, waterproof wax barrier wrap for protecting underground piping in corrosive or severe environments.

Works as a total barrier against high moisture, acidity, bacterial attack or galvanic attack, which contribute to pipeline corrosion; locks out soil, grease, dust and contaminants.

Versil-Pak is made with a carefully selected fabric saturated and coated with a high adhesion adhesive wax, as well as a high barrier plastic film. It is designed to combine high tensile strength, good moldability, excellent dead-fold, and high dielectric strength. It conforms to nearly any industrial surface, including hard-to-reach welds and threads, straps, yokes, joints, and valves.

It is ideal for use as a tight wrap around underground piping, pumps and irregular shapes on oil field machinery, large electric motors, and wherever buried equipment needs strong barrier and dielectric protection.

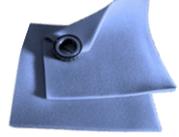


Two types of Versil-Pak barrier wraps meet the requirements of MIL-PRF-121



VERSIL-PAK PRODUCT	DESCRIPTION
#1	Heavy weight woven cotton fabric, coated both sides with highly formulated adhesive wax.
#3-1	Medium weight open mesh cotton fabric coated 1 side with high adhesion wax, laminated to barrier film.
#3-2	Medium weight cotton fabric coated 2 sides with high adhesion wax, laminated to barrier film.
#4	Heavy mesh cotton fabric coated with high adhesion wax and laminated to barrier film.
#5-1	Polyester high-strength fabric waxed 1 side, laminated to barrier film and wax coated. MIL-PRF-121 Type 1, Grade C, Class 1
#5-2	Polyester high-strength fabric, waxed 2 sides, laminated to barrier film and wax coated. MIL-PRF-121 Type 2, Grade C, Class 2

CORROSION INHIBITOR (VCI) EMITTERS & POWDERS

BRAND	PRODUCT	DESCRIPTION	PROTECTION VOLUME	DIMENSIONS
Daubrite® Disk Emitters Multi-metal protection Thin, lightweight disks. Fits in tight, small spaces. The adhesive tape on the back sticks to metal cabinets, housings and enclosures.		Daubrite 5 Disk 5 Disk Protects 5 cu. ft. (0.14 m ³) for up to 24 months* NSN 6850-01-406-2060	5 cu. ft. (0.14m ³)	2.19" Round x .16" (55.6 x 4mm) 50 units/pkg.
		Daubrite 10 Disk Protects 10 cu. ft. (0.28 m ³) for up to 24 months*	10 cu. ft. (0.28m ³)	2.19" Round x .25" (55.6 x 8mm) 50 units/pkg.
Daubrite Disk Emitter in Ventilated Case		Daubrite 10 Disk Ventilated Case Protects 10 cu. ft. (0.28 m ³) for up to 24 months* NSN 6825-01-406-9025	10 cu. ft. (0.28m ³)	2 5/8" Round x 7/8" (66 x 22mm) 10 units/pkg.
Daubrite 1 Packets <i>Multi-metal protection</i>		Daubrite 1 Packet Tear-resistant Tyvek bag. Light, economical. Protects even in the presence of moisture. Daubrite 1 protects 1 cu. ft. (0.028m ³) for up to 24 months*	1 cu. ft. (0.028m ³)	1½" x 3" (40 x 75mm) 250 units/pkg.
Daubrite Foam <i>Multi-metal protection</i>		Daubrite 3F Foam Daubrite 3F foam, individually packed. Peelable adhesive strip on the back. NSN 6850-01-338-1392	1 cu. ft. (0.028m ³)	1" x 3" (25 x 75 x 8mm) 50 units/pkg.
Daubrite Foam <i>Multi-metal protection</i>		Open Cell VCI Foam Cushioning offers shock and corrosion protection for fragile and sensitive components. Soft and abrasion resistant for polished surfaces. 10" x 10" cut sheets standard. Also available in rolls and other sizes upon request.	8 cu. ft. (0.22m ³)	10" x 10" x ¼" (250 x 250 x 8mm) 250 units/pkg.
Uniwrap® MPI VCI Chips <i>Multi-metal protection</i>		VCI Chips 30 pt. (650 g/m ²) chipboard, coated with VCI to protect multi-metal or specialty metal formulations. Other sizes and weights available on request.	25 cu. in. (0.41m ³)	1" x 1" (2.5 x 2.5cm) 25,000 units/pkg.
Nox-Rust® Vapor-Wrapper® VCI Chips <i>Ferrous metals</i>		VCI Chips 30 pt. (650 g/m ²) chipboard, coated with VCI to protect ferrous metals. Other sizes and weights available on request.	100 cu. in. (1.639m ³)	2" x 2" (5 x 5cm) 6,250 units/pkg.



NOX-RUST® VCI POWDERS

Water-soluble, silica-free Nox-Rust VCI Powder is specially designed to protect the interior metal surfaces of enclosed systems such as boilers, turbines, heat exchangers, compressors, tubes, pipes, power generation equipment, mining equipment and drilling equipment. Convenient pouch design eliminates the need to fog or spray.

VCI Powders

Powders sold in 5 lb. (2.2 kg), 25 lb. (11.3 kg) boxes; and 50 lb. (23 kg) drums.

1000SF Silica-free, water soluble powder for protecting equipment during storage or lay-up or hydrostatic testing.

1000SFG Finely ground version of 1000SF. Use in applications where a fine powder is needed.

1010SFG Finely ground powder. Compatible with copper, brass and galvanized steel.



VCI Pouch Emitters

Packaged in breathable polyethylene sealed bags.

1000SF Pouch Emitter Each 8"x 11" (20 x 28 cm) pouch contains Nox-Rust 1000SF powder to protect up to 880 ft³ (25 m³) of enclosed space. Place inside boilers, tanks, void spaces inside vessels, turbines and steam or condensate pipelines.

1015 Pouch Emitter Each 3.75"x 4" (9.5 X 10 cm) sealed pouch protects exposed metals inside an enclosure of up to 15 ft³ (0.42 m³) of space. Protects ferrous metals during extended periods of equipment inactivity, during storage or lay-up.



* Maximum protection period when used in a dry, unventilated environment. Other sizes available.

For full product information, specific recommendations and selection assistance, contact us at +1 (708) 293-7750 or email info@daubertcromwell.com

CORROSION PREVENTIVE LIQUIDS & RUST REMOVERS

NEW!

RUST REVENGE Water-Based Rust Remover

Remove rust without harming metal parts and components.

- Powerful, fast-acting - Outperforms other rust removers
- Safe on multiple surfaces, humans and the environment
- Tested and approved by leading OEMs.



	NOX-RUST® METAL PRODUCT	METAL PROTECTION	DESCRIPTION
RUST REMOVER	Rust Revenge®	Completely Biodegradable	Water-based Rust Revenge® safely soaks away rust from immersed parts. The non-toxic powerful rust removing liquid is a safe and easy to use pH neutral, non-acidic soak solution. No VOCs or HAPs. Industrial strength Rust Revenge soaks away rust from engines, automotive parts, gears, bearings, tools, and other fabricated parts. Will not harm copper, brass, vinyl, aluminum, plastic, rubber, wood. Ford TOX No. 505601. Works at bath temperatures +35°F.
OUTDOOR SOLUTIONS	3100, 3100G*	Steel; compatible with non-ferrous metals	Amber oil dries as a firm, waxy film that can be handled after 3-6 hours. Coating sets up in 12-24 hours. Remove with solvent, vapor degreaser or steam. 3100G is a thickened version of 3100 transit coating - use on vertical surfaces and small-scale brush-on type applications. Protects machined surfaces up to 1 year.
	4101	Outdoor storage and transport protection for steel, zinc	Protects in areas where acid fumes are present, such as found in pickling operations. Prevents corrosion from forming on steel parts and equipment stored in humid conditions. Non-staining. Removable with petroleum solvent, caustic cleaner, steam.
	5100	Steel; compatible with non-ferrous metals	Outdoor corrosion protection. Dries as a black, dry, firm film. Remove with solvent/alkaline cleaner. Manufactured to Mil-PRF-16173E, Grade 1, Class 1.
	5200*	Steel; compatible with non-ferrous metals.	Apply on exposed metals, unpainted metal parts. The brown, grease-like film dries as a semi-firm coating in 12-24 hours. Protection lasts 3-6 months on equipment stored outdoors, up to 5 years if stored indoors. Remove with solvent-alkaline cleaner or an emulsion cleaner.
	5300	Steel; compatible with non-ferrous metals.	Brown, oily film displaces water and saline solutions to keep corrosion from forming on metal surfaces inside closed systems. Completely miscible with lubricating oils.
	8500	Steel; compatible with non-ferrous metals.	Hard acrylic emulsion film. Water-based, clear. Dries as a tack-free exterior coating, will not pick up dust or dirt. Non-staining. May be removed with soap and water up to one hour after applying.
	9900	Steel and other metals in closed systems; compatible with copper, brass.	Environmentally safe water-based coating with corrosion protection. Low VOC with no solvents, petroleum oils or harmful chemicals. Can be diluted with water. Dries to a firm, tacky film that is not water soluble.
LUBRICANTS, PRESERVATIVES	1100	Ferrous; iron, steel	A lubricating VCI oil that protects metals in closed systems. Prevents rust caused by condensation build-up inside equipment during lay-up and preservation. Removal not required.
	1101*	Steel, iron, zinc, aluminum	Use in enclosed systems where a combination of metals are present. Petroleum-based VCI can be used full strength in ferrous and non-ferrous metal systems. It may be used on fuel tanks, gear housing, storage tanks, clutch compartments, crankcases, transmissions.
	1200DC	Steel and other metals in closed systems; compatible with copper, brass.	Environmentally safe, silica-free water solution for closed systems. Apply water-soluble liquid by fog or spray. Leaves no residue. Does not contain phosphates, heavy metals or nitrites. Preserves equipment and piping systems that need to undergo hydrostatic testing prior to shipping or storage. No special surface preparation required prior to equipment shutdown.
	7800	Steel; metalworking, precision parts	Water-displacing light oil. Ideal lubricant for high precision equipment and parts. Compatible with barium lube grease. Excellent lubricating oil for assembly parts.
	9800	Steel, iron, zinc, aluminum	Water-soluble VCI liquid; apply by fog or spray into closed systems. Clear, amber liquid is ready to use. Moisture-absorbing, fingerprint removing. Removal not required.
	Safecote CF	Steel, cast iron, ferrous alloys	Water-based oil emulsion designed to deposit a soft greasy film to protect ferrous metal surfaces. Excellent high humidity and salt spray protection. Indoor protection up to 1 year.
	Safecote CLV	Transit coating for ferrous metals	A water-based transit coating that provides environmentally safe corrosion protection for ferrous metals during storage and shipment. Low VOC. Protects metal surfaces by depositing a firm, waxy film coating. Indoor protection up to 1 year.
SPECIALTY SOLUTIONS	5400 (Weldable)*	Cold rolled steel; sheet metal stamping; automotive parts	Multi-metal inhibitor for general industrial use. Used as a wash, it leaves behind a lubricant and corrosion prevention film. Will not affect priming, painting, sealing, welding or cleaning operations. Approved for use in automotive manufacturing. OEM-Approved for threaded bolt holes and on the bolted joint abutment.
	7100	Steel; compatible with brass, aluminum, copper	Leaves a sparkling luster on treated metal. Removes water after using an aqueous cutting oil. Non-staining. Won't clog stamping machines. Repels water from metal surfaces. Dries as a transparent, non-discernible film. Removal not required.
	9300	Steel	Final rinse additive. Retards corrosion on machined parts, tools, treated steel and assemblies. Water-displacing. Provides short-term protection during storage and shipment.

ENVIRONMENTALLY FRIENDLY PRODUCTS

Clean, Effective, Environmentally Friendly VCI Film, Paper, and Rust Preventive Liquids



Daubert Cromwell offers a complete line of recyclable, RoHS compliant, non-nitrite, water-based, bio-based VCI products that meet most stringent national and international requirements among them.



Sustainable VCI Film Made from Renewal Raw Materials

CLEARPAK[®] 5000

Innovative corrosion inhibiting film. Superior rust protection with the highest level of care for the environment and worker safety.

- Protection of ferrous metals, and multi-metals
- Also protects aluminum, copper and steel
- Fully recyclable, amine-free

CLEARPAK^{BIO}

Sustainable, bio-based VCI film made from renewable raw materials. Free of nitrites and secondary amines.

- Protection for ferrous metals.
- TRGS 615 & 900 compliant; Passes TL8135-0043
- All-natural VCI derived from plants



VCI Film With 30% Recycled Content

PREMIUM METAL-GUARD RC

Safe, effective, corrosion inhibitor (VCI) film specifically engineered to provide best protection for multi-parts and surfaces. Protects wide range of ferrous/non-ferrous metal parts used in automotive, heavy equipment, and fabricated metals markets. Complies with recognized standards including TRGS615 and 900, RoHS, and REACH; recyclable.

- Meets EU Plastic Tax mandates
- Passes TL 8135 and TRGS 900 | Prop 65; RoHS; NACE TM0208



CLEARPAK[®] 5000 RC

The next generation of environmentally friendly, non-nitrite VCI films for aluminum and steel that also meets international requirements for recycled content. Protects wide range of ferrous metals, steel and aluminum.

- Meets EU Plastic Tax mandates
- Passes TL 8135 and TRGS 900 | Prop 65; RoHS; NACE TM0208
- Bio-based, nitrite-free, amine-free; safe and easy to use, non-toxic



VCI Papers Made from Renewal Sources

These anti-corrosion, anti-tarnish papers have earned the U.S. Department of Agriculture (USDA) Certified BioBased Product Certification. This distinction helps industrial and government customers choose VC packaging that is manufactured to environmentally responsible standards.

- **Nox-Rust[®] Vapor Wrapper[®]** and **Protek Wrap[®]** are designed to prevent corrosion on steel, cast iron and other ferrous metal parts.
- **Silver Saver[®]**, **Coppertex[®]**, and **Alumitex[®]** papers protect silver, copper and aluminum.



RUST REVENGE[®]

Fast Acting, Powerful Environmentally Friendly Rust Remover

Water-based Rust Revenge safely soaks away rust from immersed parts. The non-toxic powerful rust removing liquid is a safe, pH neutral, non-acidic soak solution. Industrial strength Rust Revenge soaks away rust from engines, automotive parts, gears, bearings, tools, and other fabricated parts. REACH, OEM approved. Reusable.



Your **one source** for every VCI solution

Consistent Quality ... Outstanding Service ... Innovative Solutions ... These are the strengths that make Daubert Cromwell the first choice for corrosion protection packaging.

Our global team of technical experts will work with you to identify and resolve corrosion issues, eliminate unnecessary packaging, and cut your cost of corrosion.

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The Daubert 360 Field Support Program is based on a proven 4-step process to determine the correct corrosion solution for shipping metal parts. This free program helps you determine the right packaging for your shipments of metal parts.



Choose from a wide selection of VCI packaging products that are in stock and ready to ship on our **Quick Ship** online store! Order by 12:00 Noon CST for Same Day Shipment within the United States.

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