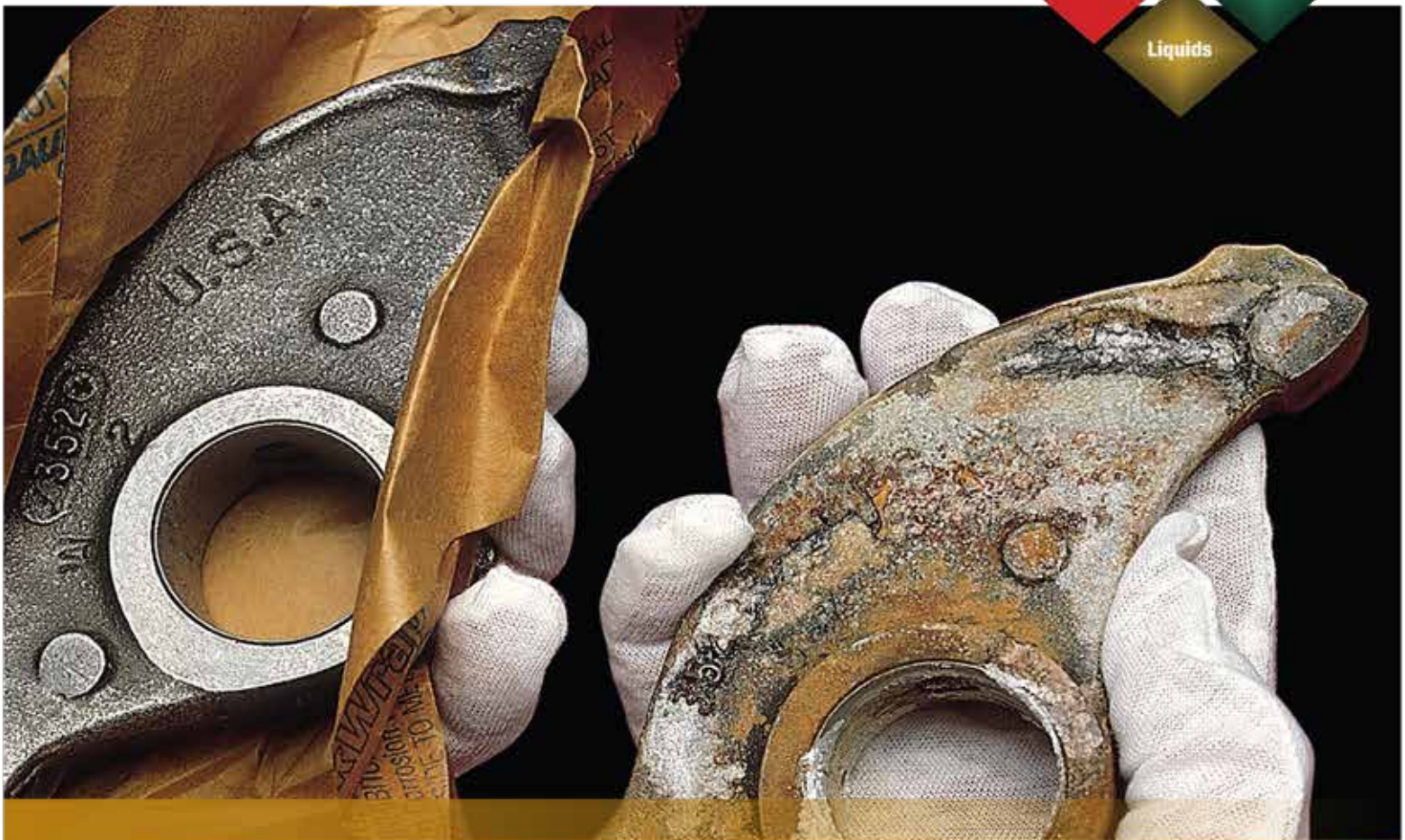
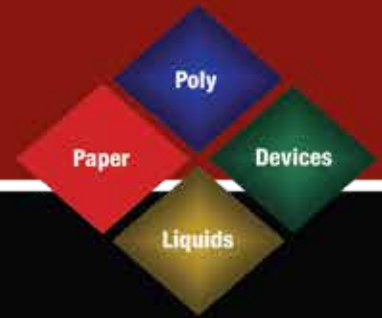


# Corrosion Protection Packaging for Industry

CORROSION PREVENTION SOLUTIONS  
FOR METAL MARKETS



# DAUBERT CROMWELL

12701 S. Ridgeway Avenue Alsip, IL 60803 USA  
Telephone: +1-708-293-7750 or 800-535-3535  
Fax: +1-708-293-7765

[www.daubertcromwell.com](http://www.daubertcromwell.com)  
[info@daubertcromwell.com](mailto:info@daubertcromwell.com)

For more than 80 years, quality manufacturers have trusted Daubert Cromwell VCI products to protect their valuable metal parts against corrosion. Today, as companies seek ways to reduce costs yet maintain quality in all stages of manufacture, storage and shipment, Daubert Cromwell offers innovative solutions to corrosion problems. Through proven quality and years of exemplary service, the company has earned its reputation as "The leading name in corrosion prevention."

Daubert Cromwell is headquartered in a state-of-the-art manufacturing center conveniently located in suburban Chicago, with manufacturing and shipping locations throughout the world.

## IT'S A GLOBAL WORLD.

Let our Global Network determine the right corrosion solution for you.

Technical sales managers are strategically located throughout the U.S. In addition, a global sales team coordinates customer requirements in:

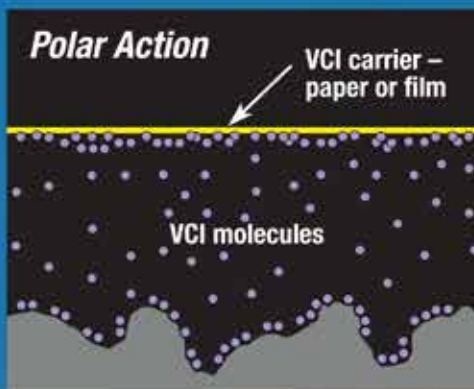
- Mexico
- Brazil
- China
- Southeast Asia
- Japan
- India
- Europe
- Australia
- South America



## HOW VCI PRODUCTS WORK

When metals are wrapped or packaged in VCI, the chemicals volatilize in 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
- Lower per unit packaging
- Packaging flexibility
- Reduced processing time



**"YOUR ONE SOURCE FOR  
EVERY VCI SOLUTION"**

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The Daubert 360 Field Support Program uses a proven 4-step process to determine the right corrosion solution for shipping metal parts. This complimentary program helps determine the methods, materials, and procedures needed to ensure your packaged metal parts arrive at their destinations free of corrosion.



Consistent quality... exemplary service... innovative solutions, these are the strengths that make Daubert Cromwell industry's first choice for protective packaging.



### 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 80-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.

## CORROSION INHIBITOR PACKAGING PAPERS

### Selecting the Right VCI Paper

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

- Using virgin kraft paper.
- Odorless, safe, non-toxic, recyclable.
- VCI protection sets up quickly.
- Easy to use

The type of VCI paper you choose depends on the metal being protected. Daubert Cromwell has 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.

As a general rule, use heavier weights of paper to protect large or irregularly shaped equipment and components. Use barrier coated papers, such as waxed or poly coated, to keep out moisture and grease. Laminated or reinforced grades offer heavy-duty protection against corrosion-causing contaminants in the environment, plus resist rips and tearing.

### Broad Selection

- Roll stock, sheeting, bags, envelopes
- Covers, liners, die-cut and fabricated shapes.
- Custom cut sheets to eliminate waste and reduce labor/material cost.
- 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.



VCI Packaging for Gears, Bearings



VCI Papers, Bags and Wraps  
for Small Part Packaging



VCI Specialty Metals Protection



Anti-Tarnish Packaging

Daubert Cromwell is a U.S. Government  
approved supplier of products qualified  
for critical U.S. Military applications.



For complete product information, specific recommendations and selection assistance,  
call +1-708-293-7750, 800-535-3535, or e-mail [info@daubertcromwell.com](mailto:info@daubertcromwell.com)

BRAND	PRODUCTS	DESCRIPTION
Nox-Rust® Vapor Wrapper®	VW35D VW35DH	35 lb./57 g/m <sup>2</sup> natural kraft saturated both sides with premium corrosion inhibitor formulation. <b>Long-term protection of ferrous metals including steel and iron.</b> VW35DH is nitrite-free.
	VW60D VW60DH	60 lb./98 g/m <sup>2</sup> natural kraft. Provides excellent strength and tear resistance. Ideal for packaging heavier parts. VW60DH is nitrite-free.
	VW100DH	Two 40 lb./65 g/m <sup>2</sup> natural kraft sheets laminated with polyethylene. Strong, tear resistant. <b>Excellent moisture barrier.</b> Nitrite-free.
	PC55D PC75D	40 lb./65 g/m <sup>2</sup> natural kraft <b>coated with polyethylene. Provides moisture barrier.</b> PC75D is 60 lb./98 g/m <sup>2</sup> for use when greater tear strength and puncture resistance are required. Both are nitrite-free.
Protek Wrap®	PW30, PW30H	30 lb./49 g/m <sup>2</sup> natural kraft saturated both sides with corrosion inhibitor formulation for ferrous metals in storage and shipment. <b>General protection of ferrous metals.</b> PW30H is nitrite-free.
	PW32, PW32H	35 lb./57 g/m <sup>2</sup> natural kraft. PW32H is nitrite-free.
	PW60, PW60H	60 lb./98 g/m <sup>2</sup> natural kraft. PW60H is nitrite-free.
	PW33, PW33H	35 lb./57 g/m <sup>2</sup> natural kraft with specially formulated wax for enhanced molding and barrier properties. <b>Ideal for hand-wrapping small parts.</b> PW33H is nitrite-free.
	40PCF, 60PCF	40 lb./65 g/m <sup>2</sup> natural kraft coated with polyethylene for moisture barrier protection and package strength. 60PCF is 60 lb./98 g/m <sup>2</sup> . Both are nitrite-free.
Ferro-Pak™	30A, 30F	30 lb./49 gsm natural kraft <b>specially formulated for galvanized metal applications.</b> Nitrite-free. Also available in 35 lb., 40 lb., and 60 lb. natural kraft papers.
	40W	40 lb./65 g/m <sup>2</sup> natural kraft saturated both sides with nitrite-free formulation, for corrosion protection of ferrous metals. Available in 60 lb. paper and poly coated.
Ferro-Galv™	30FG	30 lb./49 g/m <sup>2</sup> natural kraft specially formulated for galvanized metal applications. Also available in 35 lb., 40 lb. and 60 lb. natural kraft papers.
	Woven Ferro-Galv	40 lb./65 g/m <sup>2</sup> natural kraft laminated to woven polyethylene/polypropylene, VCI treated. Provides maximum strength and tear resistance.
Military Grades (On the U.S. Dept. of Defense QPL for MIL-PRF-3420)	4060	35 lb./57 g/m <sup>2</sup> natural kraft. <b>Qualified as Light duty, Class 3, style A.</b> NSN 8135-00-810-0481.
	VW60H	60 lb./98 g/m <sup>2</sup> natural kraft. <b>Medium duty, Class 2, style A.</b> Nitrite-free. NSN 8135-00-664-4012.
	7090	70 lb./114 g/m <sup>2</sup> . <b>Heavy duty Class 1, style A.</b> NSN 8135-00-664-4010.
Coppertex®	CPTX	35 lb./57 g/m <sup>2</sup> natural kraft. <b>Protects copper, brass, bronze, and other copper alloys.</b> Use as a wrap and for interleaving. Nitrite-free.
Silver Saver® Silver-Guard™	Silver Saver Silver-Guard	40 lb./65 g/m <sup>2</sup> bleached kraft. Prevents tarnish on silver, gold and noble metals. Nitrite-free, sulfur-free. Silver-Guard anti-tarnish paper is poly-coated.
Uniwrap® MPI	UW30MPI	30 lb./49 g/m <sup>2</sup> natural kraft. Multi-purpose corrosion inhibitor for ferrous/non-ferrous metals and combinations of metals, including cadmium and zinc galvanized steel. Also available in 35 lb., 40 lb., 60 lb. papers, chips and other substrates.
	UW33MPI	35 lb./49 g/m <sup>2</sup> natural kraft, wax coated, provides excellent moldability and barrier properties.
	UW200	35 lb./57g/m <sup>2</sup> natural kraft, multi-purpose corrosion inhibitor for combination ferrous/non-ferrous metals. <b>Nitrite-free.</b>
	40PCMPI 60PCMPI	40 lb./65 g/m <sup>2</sup> natural kraft coated with polyethylene for moisture barrier protection and package strength. 60PCMPI is 60 lb./98 g/m <sup>2</sup> natural kraft, poly-coated.
Reinforced Papers	UW94MPI Woven	40 lb./65 g/m <sup>2</sup> natural kraft polyethylene laminated to woven polyethylene fabric and coated with Uniwrap MPI multi-metal protection. Provides maximum strength and tear resistance in heavy duty applications. <b>Excellent coil wrap.</b>
	PC50MPI Scrim PC50H Scrim	50 lb./80 g/m <sup>2</sup> natural kraft with LDPE reinforced with tri-directional scrim. Designed as <b>sheeting and interleaving between heavy steel rolls and pallets.</b> PC50H is white, nitrite-free.
	Steelwrap MPI	40 lb./65 g/m <sup>2</sup> natural kraft treated one side, laminated with reinforcement and polyethylene to a 50 lb./81 g/m <sup>2</sup> natural kraft. Provides heavy duty moisture resistance and strength for wrapping steel coils.
Chips	VCI Chips	30 pt. chipboard coated with ferrous, non-ferrous or specialty metal formulation. Standard in 1" x 1", 2" x 2". Custom sizes.

# CORROSION INHIBITOR PACKAGING FILMS

Daubert Cromwell films exceed all the rigorous demands for corrosion protection in a lean global manufacturing environment. The proprietary formulation of corrosion inhibitors is integrally blended into the film, not superficially applied. The VCI volatilizes inside the packaging environment, protecting the metal with an invisible, effective, barrier that prevents moisture, salt, oxygen, dirt, and other corrosion-causing materials from depositing directly on the surface.

Daubert Cromwell uses transparent colors that allow for easy visual inspection and identification of parts. The easy-to-use, safe, effective packaging is good for long-term storage, export shipments, in-process assembly, and more.

- 1-8 mil thickness options
- Formulations to meet unique applications and fit into any program budget.
- Odorless, safe, non-toxic, recyclable.
- Heat sealable, tear-resistant, moisture-resistant.
- Nitrite-free, amine-free, plant-based formulations.
- Available in rolls; shrouds; flat, zipper and gusseted bags; gusseted liners; stretch film; shrink film; bonnets; custom types and fabrications.
- Ideal for large and roughly handled assemblies, frames, stampings, doors, etc.
- RoHS certified (by independent labs).

## Stretch and Shrink Film

VCI films offer the handling ease of polyethylene with the corrosion protection of Daubert Cromwell's proven chemistry.

## Anti-Tarnish Film

Packaging and storing precious silver in see-through, reclosable Silver-Guard™ film is the convenient, effective way to prevent tarnish.

## Broad Selection

*Daubert Cromwell VCI films are available in stock and custom sizes to meet your specific application:*

- Flat and reclosable bags
- Pre-opened bags on a roll
- Perforated, loose and zippered bags
- Shrouds
- Tubing
- Sheeting
- Gusset bags (popular large sizes are in stock)
- Fabricated bags

## Specialty Film Products:

*Call Daubert Cromwell about more product options and custom film products, including:*

- High strength, puncture-resistant, tear-resistant films
- UV stable shrink and barrier films
- Flame Retardant
- Co-Extruded
- VCI-lined fabric bags and shrouds
- Bonnets and covers
- Custom colors

*Standard film is tinted a unique shade of blue to identify it as a quality product of Daubert Cromwell.*



new

**The next generation of environmentally friendly, non-nitrite  
VCI film for ferrous metals, aluminum and steel.**

# CLEARPAK® 5000

- Recyclable, nitrite-free
- Heat-sealable, tear-resistant
- Long-term corrosion protection
- Safe and easy to use
- Parts remain clean, dry & ready to use immediately, without additional cleaning or rework
- Compatible with Daubert Cromwell rust preventive liquids, papers, foams & emitters
- Passes TL 8135, Prop 65 Compliant
- OEM Approved



Automotive Applications



Engine Lay-Up Protection



Large Metal Equipment







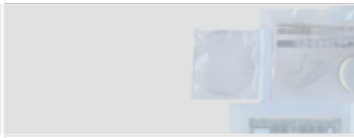
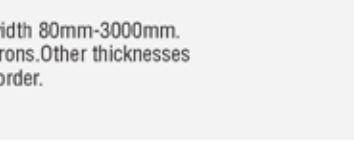


Packaging, Shipping



Small Parts Protection

**FILM** Premium Metal-Guard®, Metal-Guard®, Metal-Guard® FF, Ferro-Film™, Clear Pak®, Clear Pak® BIO, Silver-Guard™, Nox-Rust® Poly Wrap.

PRODUCT	DESCRIPTION	PROTECTION	THICKNESS	STOCK SIZES				
				FLAT BAGS	ZIPPER BAGS	PERF'D ON ROLL	GUSSET BAGS	SHEETING
<b>Premium Metal-Guard®</b>	Heat sealable, LDPE film with proprietary blend of contact and volatile corrosion inhibitors in the film. Standard Daubert blue; other colors by custom order. Available in sheeting; resealable, flat and gusseted bags; stretch films; shrink films with UV properties, masking films; high strength formulation options.	Multi-metal protection	3, 4, 6 mil are standard; Other thicknesses by custom order.	4" x 6" 6" x 8" 8" x 10" 9" x 12" 12" x 18" 24" x 36"	3" x 5" 4" x 6" 6" x 8" 8" x 10" 9" x 12" 12" x 18"	18" x 24"	27" x 20" x 25.5" 44" x 36" x 36" 40" x 36" x 80" 50" x 48" x 80" 54" x 44" x 96" 60" x 50" x 95" 16" x 10.5" x 21.25" (2.5 mil)	36" x 500 ft. 48" x 500 ft. 240" x 165 ft. 240" x 100 ft.
<b>Ferro-Film®</b>	Heat sealable LDPE film with contact and volatile corrosion inhibitors blended in the film. Standard green. Other colors by custom order.	Ferrous metals	4 mil is standard. Other thicknesses by custom order.					36" x 500 ft. 48" x 500 ft.
<b>Clear Pak®</b> <b>CP 5000</b> <b>CP BIO</b>	<b>Nitrite-free</b> , heat sealable, LDPE film with proprietary corrosion inhibitors blended into the film. Clear Pak is standard in Daubert blue. CP BIO is standard in purple.	<i>CP5000= For Multi-metal, Aluminum</i> <i>CP BIO= For Ferrous metal</i>	4 mil standard. Other thicknesses by custom order					
<b>X-O Wrap Shrink Film</b> <i>For Exterior, Outdoor applications.</i>	Heat-sealable, puncture-resistant, flexible shrink film conforms to bulky shapes and non-standard dimensions. Opaque, durable X-O Wrap films are available in blue or white. Widths up to 32'.	PMG X-O Wrap for multi-metals; Ferro-Film X-O Wrap for ferrous; Daubert X-O Wrap for general use.	6-10 mil standard.					240" x 100 ft.
<b>Metal-Guard® FF</b> <b>Metal-Guard® FF Light</b>	A heavy duty foil barrier film that creates an effective packaging environment for metal parts, machinery and equipment in harsh climates and during export. Heat sealable, waterproof, greaseproof and flexible.	Ferrous metals.						
<b>VCI Masking Film</b>	A pressure sensitive adhesive film that protects metal surfaces against scratches, marring and corrosion. Applies easily, leaves no residue.	Multi-metal protection.	2 mil standard; Roll widths 3" to 80".					
<b>VCI Stretch Film</b>	Film has excellent clarity and cling properties. Strong, puncture-resistant. Designed to secure and protect irregular loads.	Multi-metal protection.	Standard in 1 mil.					18" x 1,500 ft. 20" x 1,500 ft. 20" x 4,500 ft. 20" x 5,000 ft.
<b>Nox-Rust® Poly Wrap</b>	All-poly fabric for wrapping steel coils, sheeting, pallets and equipment. Woven polyolefin structure (8x8 weave) impregnated with VCI. Good deadfold. Recyclable.	Ferrous/non-ferrous protection.	Up to 84" wide.					
<b>Silver-Guard</b>	Heat sealable, LDPE film with anti-tarnish properties. Nitrite-free. Standard 2 mil sheeting and bags.	Anti-tarnish protection for silver.	2 mil standard.					
<b>VCI Bubble Wrap</b>	Premium Metal-Guard proven corrosion protection with cushioning properties of bubble film.	Ideal for heavy metal parts or delicate components.	Minimum width 80mm-3000mm. 30-430 microns. Other thicknesses by custom order.					

Other VCI film constructions and types available. For complete information, call +1-708-293-7750, 800-535-3535, or email [info@daubertcromwell.com](mailto:info@daubertcromwell.com)

## WATER-BASED, ACID-FREE, FAST-ACTING RUST REMOVERS

### EVAPO-RUST®

Evapo-Rust is a biodegradable, reusable, pH neutral rust remover proven effective on all types of mild steel and iron. The water-based, non-corrosive soak solution works safely and quickly to remove rust from ferrous metals without harming vinyl, plastic, rubber, glass or wood.

#### Typical Applications

- Engines
- Automotive
- Manufacturing
- Gears, Bearings
- Machine Shops
- Tools, Spare Parts

**One gallon de-rusts up to 300 lbs.  
of moderately rusted steel**

- Water-based, non-hazardous.
- Safe on multi-surfaces.
- Will not harm paint or rubber.
- No VOC's or HAP's.
- No acids or bases.
- Non-toxic, biodegradable.
- Easy to use. No special handling required.



Before EVAPO-RUST



After EVAPO-RUST

### Nox-Rust® Premium Rust Removing Gel

Nox-Rust Premium Rust Removing Gel is a water-based, fast-acting, brush-on gel that safely and effectively restores metal surfaces. The thick, odorless and acid-free gel works without scrubbing or sandblasting. It begins to remove light rust within 15 minutes. When rust is completely dissolved, wipe or rinse gel away. The clean part is ready for next process, storage or shipment.

#### Typical Applications:

- Vertical surfaces that cannot be immersed in rust remover liquids.
- Large metal components, assemblies and machinery
- Hand rails, posts, racks
- Lockers, bleachers, bathroom partitions.
- Metal cabinets, walls, dividers
- Automotive parts
- Tools



## CORROSION PREVENTIVE LIQUIDS AND POWDERS

### Nox-Rust® Corrosion Preventive Liquids

Selecting the proper Nox-Rust liquid depends on a number of conditions:

- Outdoor or indoor use
- Duration of use
- Type of metal to product
- Method of application and removal

#### Typical Applications:

- Lay-up and preservation
- Final rinse additive
- Cleaning agent
- Edge coat for coils and sheet stock
- Closed systems (boilers, tanks, pipes, piping)
- Unpainted metal parts
- Seasonal equipment (lawnmowers, snowblowers)
- Metal processing lubricants

### Nox-Rust Powders

- Safe and environmentally friendly
- Does not contain phosphates, heavy metals or nitrites
- Silica-free
- Water-soluble
- Typically does not require any special surface preparation prior to equipment shutdown.
- No need to remove before restarting equipment
- Use wet or dry
- Ideal for extended periods of equipment inactivity, during storage or lay-up, during and after hydrostatic testing.



Spray-On Multi-Metal Inhibitor



Metal Parts Protection

*This selection guide to Daubert Cromwell liquids and powders is intended for general reference only. For complete product information, specific recommendations and selection assistance, call +1-708-293-7750, 800-535-3535, or e-mail [info@daubertcromwell.com](mailto:info@daubertcromwell.com)*

LIQUIDS Nox-Rust® Safecote®			
PRODUCT	METAL PROTECTION	DESCRIPTION	
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.	OUTDOOR SOLUTIONS
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-film 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 for 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. Compatible with copper and brass.	
1100	Ferrous; iron, steel.	A lubricating oil and corrosion preventive to protect metals in closed systems. Prevents rust caused by condensation build-up inside equipment during lay-up and preservation. Removal not required.	LUBRICATING LIQUIDS, PRESERVATIVES
1101†	Steel, iron, zinc, aluminum.	Use in closed systems where a combination of metals are present. Petroleum-based Nox-Rust 1101 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. Silica-free liquid 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.	
9800	Steel, iron, zinc, aluminum.	Water-soluble VCI liquid to apply required by fog or spray into closed systems. Clear, amber liquid is ready to use. Moisture-absorbing, fingerprint removing. Removal not required.	
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.	
Safecote® CF	Steel, cast iron, ferrous alloys.	A blend of inhibitors, emulsifiers and surfactants designed to deposit a soft greasy film from a water emulsion system to protect ferrous metal surfaces. Excellent high humidity & salt spray protection.	
Safecote CLV	Transit coating for ferrous metals.	A water-based transit coating that provides environmentally safe corrosion protection for ferrous metals during storage & shipment. Low VOC protects metal surfaces by depositing a firm, waxy film coating.	SPECIALTY SOLUTIONS
5400†	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 preventive film. Will not affect priming, painting, sealing, welding or cleaning operations. Easy to remove by conventional cleaning methods. Approved for use in automotive manufacturing.	
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.	
7800	Steel; metalworking, precision parts.	Ideal lubricant for high precision equipment and parts. Compatible with barium lube grease. Excellent lubricating oil for assembly parts.	
9300	Steel	Final rinse additive. Retards corrosion during shipment and storage of machined parts, tools, treated steel and assemblies. Water-displacing.	
9700	Steel	Synthetic, water-based fluid. Removes dirt, debris from steel before mill oils are applied.	
EV9	Ferrous/ non-ferrous.	A vegetable base (soybean), safe, biodegradable protective coating engineered to protect metals stored or shipped in extreme environmental conditions. Stays oily to the touch. For piping, tubing, engineered parts, fabricated metals transportation equipment where environmental concerns are a factor.	
POWDERS Nox-Rust®			CLOSED SYSTEMS
1000SF	Ferrous	Silica-free, water soluble powder for protecting equipment during storage or lay-up or hydrostatic testing. Environmentally friendly; does not contain phosphates, heavy metals or nitrites. Apply by dusting, fogging, or dissolve in water. No need to remove before restarting the unit after shut-down.	
1000SFG	Ferrous	Finely ground version of 1000SF. Use in applications where a fine powder is needed.	
1010SFG	Best for copper and brass	Silica-free, water soluble, finely ground powder. Use wet or dry. Compatible with copper, brass and galvanized steel. Does not need to be removed prior to equipment restart.	

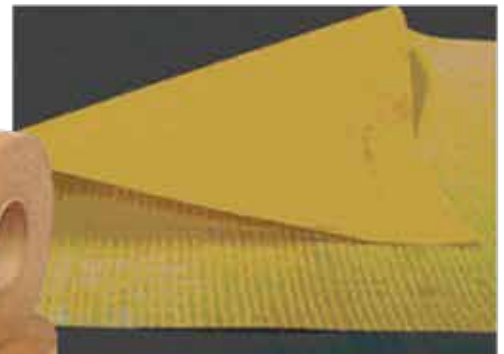
Powders sold in 5 lb., 25 lb. and 150 lb. boxes. Liquids sold in 5-gallon pails and 55-gallon drums. †Also sold in 11 oz. aerosols.

## VERSIL-PAK

Versil-Pak is a flexible, greaseproof, waterproof barrier wrap for protecting underground piping in corrosive or severe environments. It works as a total barrier against high moisture, acidity, bacterial attack or galvanic attack, which contribute to pipeline corrosion. Versil-Pak 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 military specification 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. <b>MIL-PRF-121 Type 1, Grade C, Class 1</b>
#5-2	Polyester high-strength fabric, waxed 2 sides, laminated to barrier film and wax coated. <b>MIL-PRF-121 Type 1, Grade C, Class 2</b>

Standard in 36" x 50 yd. and 36" x 100 yd. rolls.

## DAUBRITE® EMITTERS

Daubrite emitters are corrosion-preventive devices designed for use inside packaging environments and enclosed spaces:

- Electronics and telecom equipment
- Utility boxes
- Engine compartments
- Mechanical controls
- Gun cabinets
- Tool Boxes
- Shipping containers and pallets
- Exposed wire in junction boxes, control panels

*Wherever corrosion can attack and damage exposed metal*

Daubrite devices emit protective vapors into the space to form an invisible layer on the surface of the metal to prevent moisture, salt, dirt, oxygen and other contaminants from depositing on it, causing corrosion.

- Specially formulated to be effective on steel and multi-metal parts
- Safe, economical, easy to use, and the corrosion protection
- Lasts for years, even in the presence of moisture

### Daubrite Disks

- Thin, lightweight disks can be positioned inside tight or restrictive spaces.
- Adhesive tape on the back sticks to metal cabinets, containers and walls.
- **Daubrite 5** protects 5 cu. ft. for up to 24 months\*
  - NSN 6850-01-406-2060
- **Daubrite 10** protects 10 cu. ft. for up to 24 months\*
  - NSN 6850-01-406-9025

### Daubrite Packets

- Sturdy, tear-resistant construction.
- Lightweight, economical.
- Protects even in the presence of moisture.
- Each Daubrite 1 protects metals in 1 cu. ft. of enclosed space.

### Daubrite Foam

- Provides cushioning for delicate and sensitive components.
- Soft and abrasion resistant, won't harm polished finishes.
- Available in rolls, 10" x 10" squares; individually wrapped, adhesive-backed pieces; cut-to-length pieces; special constructions; closed cell foams and laminations.
- NSN 6850-01-338-1392

### VCI Chips

30 pt. chipboard coated with Daubrite Cromwell corrosion inhibitor formulations and cut in convenient 1" x 1", 2" x 2" and pieces.

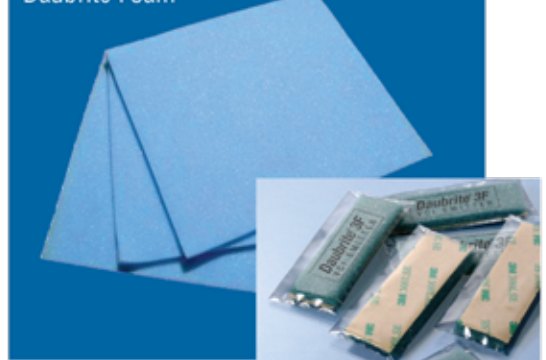
- Nox-Rust® Vapor Wrapper chips for protecting iron, steel, cast iron, and ferrous metals.
- Uniwrap® MPI chips for ferrous/non-ferrous metals and combinations of metals.
- 1" x 1" chip protects 25 cu. in.; 2" x 2" chip protects 100 cu. in.

### Daubrite Disk Emitters



### Daubrite 1 Packets and VCI Chips

### Daubrite Foam



PRODUCT	PROTECTS	UNITS/PKG.	SIZE	DESCRIPTION
<b>Daubrite 1 Packet</b>	1 cu. ft.	250	1 1/2" x 3" Packet, White	White packets with blue print.
<b>Daubrite 3F Foam</b>	1 cu. ft.	50	1" x 3" Foam, Blue	Adhesive-backed VCI foam, individually wrapped in clear poly. NSN-6850-01-338-1392
<b>Daubrite Foam Open Cell Foam</b>	8 cu. ft.	250	10" x 10" x 1/4"	Cut squares of blue VCI foam for cushioning polished metal.
<b>Daubrite 5 Disk</b>	5 cu. ft.	50	2.19" Round x .16"	Self-stick VCI emitter, white, labeled, packed 50 per case. NSN-6850-01-406-2060
<b>Daubrite 10 Disk</b>	10 cu. ft.	50	2.19" Round x .25"	Self-stick VCI emitter, white, labeled, packed 50 per case. NSN-6850-01-408-9025
<b>Nox-Rust® 1015 Pouch Emitter</b>	15 cu. ft.	—	3.75" x 4"	White packets with black print

\*Maximum protection when used in a dry, non-aerated environment.

Daubert Cromwell is committed to setting new standards in the development of packaging solutions for a wide range of customers in markets where corrosion prevention is critical.

Export Shipment



Automotive



Metalworking



Heavy Equipment



Aerospace & Military



Energy



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.



**DAUBERT  
CROMWELL**

**PRODUCT • PERFORMANCE • QUALITY**

12701 S. Ridgeway Avenue, Alsip, IL 60803 USA • Telephone: 800-535-3535 +1-708-293-7750 • Fax: +1-708-293-7765 • [www.daubertcromwell.com](http://www.daubertcromwell.com)

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