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This Product Selection Guide to Daubert Cromwell liquids, coatings and powders is intended as a quick reference guide. It offers corrosion solutions for general industrial applications, using proven, quality products that manufacturers worldwide have trusted since 1948. For specific recommendations and product selection assistance, please contact Daubert Cromwell at 800-535-3535; www.daubercromwell.com.

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Products for Unprotected Storage/Transport Systems

ASSEMBLY	TYPE OF METALS	CORROSION SOLUTION
Equipment, Assemblies Parts <ul style="list-style-type: none"> • Exposed Metals • Unpainted Metal Parts   <ul style="list-style-type: none"> • Equipment • Machinery • Piping • Cranes • Seasonal Equipment • Hinges, Tooling • Pumps, Tanks • Stored Metal Parts • Machine Components  	<p>Steel (ferrous) metals; compatible with non-ferrous metals (zinc, brass, cadmium, aluminum, copper).</p> <p>Application Tips:</p> <ul style="list-style-type: none"> ✓ Use Nox-Rust 5100 or Nox-Rust 3100 to keep rust from forming on equipment that is stored or transported in severe environments and temperature extremes. ✓ Use Nox-Rust 5200 to prevent corrosion on metals that will be stored outdoors for less than 6 months, and on equipment stored indoors for long periods of time. ✓ Metal surface should be as clean and dry as possible. ✓ Remove loose or flaking rust. If mild flash rust is present, Nox-Rust 3100 should adhere and will minimize additional corrosion. 	<p>Heavy Duty Outdoor Corrosion Protection:</p> <p>Nox-Rust 5100</p> <ul style="list-style-type: none"> • Apply the black oil by dip, spray or brush. • Dries as a black, dry, firm film. Parts can be handled after 3-6 hours. Film sets up completely in 12-24 hours. • To remove, use solvent/alkaline cleaner. • Lasts 1-3 years. • Sold in 55-gallon drums and 5-gallon pails. <p>Nox-Rust 3100</p> <ul style="list-style-type: none"> • Apply the amber oil directly onto metal by dip, spray or brush. • Dries as a firm, waxy film that can be handled after 3-6 hours. The coating will set up in 12-24 hours. Rust prevention properties are fully developed when the coating is dry. • To remove, use solvent, vapor degreaser or steam. • Corrosion protection lasts 3-6 months outdoors when exposed to weather; 5 years indoors. • Sold in 55-gallon drums, 5-gallon pails, and ready to use in convenient new 11-ounce aerosol cans. <p>Nox-Rust 5200</p> <ul style="list-style-type: none"> • Apply the brown, grease-like film by dip, spray or brush. • Dries as a semi-firm coating that sets up in 12-24 hours. Parts can be handled after 3-6 hours. • To remove, use solvent/alkaline cleaner or an emulsion cleaner. • Protection lasts 3-6 months outdoors; up to 5 years indoors. • Sold in 55-gallon drums, 5-gallon pails, and ready to use in convenient new 11-ounce aerosol cans.

Products for Protected Storage/Transport Systems

ASSEMBLY

Equipment, Assemblies Parts

- Exposed Metals
- Unpainted Metal Parts



- Engine Systems
- Automotive Body Panels
- Metal Dies
- Tools, Hinges
- Fuel Tanks



- Motors
- Underside Assemblies
- Turbines
- Heating and Cooling System Components



TYPE OF METALS

Steel (ferrous) metals; compatible with non-ferrous metals (zinc, brass, cadmium, aluminum, copper).

Application Tips:

- ✓ Use Nox-Rust 5300 to displace water or saline solution from vulnerable metal surfaces where corrosion could occur.
- ✓ Can be used in combination with a barrier material to cover bare steel or phosphated surfaces for limited periods outdoors.
- ✓ It is completely miscible with lubricating oils.
- ✓ Nox-Rust 8500 and 8500AL prevent rust stains on paint caused by flakes of rust or metal falling on surfaces while in transit.
- ✓ Protects against normal oxidation and weathering.
- ✓ Will adhere to a variety of ferrous, non-ferrous and plastic substrates.
- ✓ Protects chrome from white rust.
- ✓ Eliminates water spotting caused by acidic rains or hard water.
- ✓ Protects against marring and scratching.
- ✓ An aesthetically pleasing finish.

CORROSION SOLUTION

Outdoor Corrosion Protection:

Nox-Rust 5300

- Apply the brown, oily film by dip, spray or brush.
- The liquid will displace water and saline solutions to keep corrosion from forming on metal surfaces inside closed systems.
- Dries as an oily film. Metal parts can be handled in 3-6 hours. Sets up in 12-24 hours.
- If removal is required, use solvent/alkaline cleaner or an emulsion cleaner.
- Lasts up to 12 months.
- Sold in 55-gallon drums, 5-gallon pails and convenient new 11-ounce aerosol cans.

Exterior Coatings:

Nox-Rust 8500 (clear color)

Nox-Rust 8500AL (aluminum color)

- Hard acrylic emulsion film.
- Water-based.
- Apply the light, oily film by dip, spray or brush.
- Dries as a tack-free coating, so it will not pick up dust or dirt. Non-staining.
- May be removed with soap and water for up to one hour after application.
- 8500AL is aluminum-colored (silver).
- Sold in 55-gallon drums and 5-gallon pails.

Products for Protected Storage/Transport Systems

ASSEMBLY

Equipment, Assemblies Parts – Tank Enclosures

- Engines
- Piping
- Fuel Tanks
- Crankcases
- Injection Pumps
- Transmissions
- Drive Clutch
- Hydraulic Systems
- Storage Tanks
- Snowmobiles
- Lawn Mowers
- Road Building Equipment
- Farm Equipment



- Power Plants
- Gas, Steam Turbines
- Piping Systems
- Heating and Cooling Systems
- Boilers



TYPE OF METALS

Steel (ferrous) and/or other metal parts in enclosed systems; iron, zinc and aluminum.

Application Tips:

- ✓ Nox-Rust 1100 is a lubricating oil and corrosion preventive to protect metals in closed systems.
- ✓ Prevents rust caused by condensation buildup inside equipment during lay-up and preservation.
- ✓ Vaporizing rust inhibitors cover interior cavities and recesses.
- ✓ When used as directed engines need no preparation before restarting.
- ✓ Nox-Rust 1101 now available in convenient, ready to use aerosol spray.
- ✓ Nox-Rust 9800 is barely discernible when dry.
- ✓ Protects metal surfaces during extended periods of equipment inactivity, such as during storage and lay-up.
- ✓ Suitable for use in the steam path in power plants and other critical areas.
- ✓ Moisture-absorbing and fingerprint removing.

CORROSION SOLUTION

Lubricating Liquids:

Nox-Rust 1100

- Apply the light, golden oil into steel fuel tank, oil fill hole and spark plug holes of cool engines.
- Add to sealed cavities of drive assemblies, carburetor engines, diesel engines and transmissions per instructions in Product Application Bulletin.
- Apply as an additive or by fogging.
- Removal not required.
- Corrosion protection lasts up to 1 year.
- Sold in 55-gallon drums and 5-gallon pails.




Nox-Rust 1101

- Multi-metal VCI oil in concentrate form.
- See Product Application Bulletin for dilution rates.
- Corrosion protection lasts up to 1 year.
- Sold in 55-gallon drums, 5-gallon pails, and ready to use 11-ounce aerosol cans.

Nox-Rust 9800

- Water soluble VCI liquid to apply by fog or spray into enclosed systems.
- Clear, amber liquid is ready to use.
- Dries as a thin soft, self-healing film.
- No surface preparation required.
- Won't discolor aluminum.
- Removal not typically required, but can be easily removed with hot steam or water.
- Corrosion protection lasts 24 months.
- Sold in 55-gallon drums and 5-gallon pails.

Products for the Metal Working Industry

ASSEMBLY	TYPE OF METALS	CORROSION SOLUTION
Metalworking, Precision Parts & Assemblies <ul style="list-style-type: none"> • Springs • Stampings • Saws & Machine Tools • Engines • Compressors • Refrigeration Equipment • Aviation Parts • Watch-Maker & Precision Tools • Gear Shafts • Sockets • Hammers • Cutting Tools • Bearings • Knife Blades • Guns & Firearms • Precision Equipment 	Steel and ferrous metals; compatible to zinc, brass, cadmium, aluminum, copper. <p>Application Tips:</p> <ul style="list-style-type: none"> ✓ Ideal lubricant for high precision equipment and parts. ✓ Compatible with barium lube grease. ✓ Excellent lubricating oil for assembly parts. 	Corrosion Preventive Lubricant <p>Nox-Rust 7800</p> <ul style="list-style-type: none"> • Apply the light oil by dip, spray or brush. • Mixing or other preparation is not required. • Applies as an oily film. • Removal is not required except in some instances when metal is to be painted. Use solvents, mineral spirits or alkaline cleaners. • Lasts 6-12 months. • Sold in 55-gallon drums and 5-gallon pails.
	Steel (ferrous) metals. <p>Application Tips:</p> <ul style="list-style-type: none"> ✓ Can be diluted with water or petroleum solvent. ✓ Retards corrosion during shipment and storage of machined parts, tools, treated steel and assemblies. ✓ Water-displacing. 	Final Rinse Additive <p>Nox-Rust 9300</p> <ul style="list-style-type: none"> • Apply as an additive to final stage rinse (water or emulsifies with solvent). • Also may apply by dip, spray or brush (dilute as recommended on Tech Data Sheet). • Applies as a thin, oily emulsion. • Remove with alkaline cleaners/solvents. • Lasts 3-9 months. • Sold in 55-gallon drums and 5-gallon pails.
 <ul style="list-style-type: none"> • Coiled Steel • Coated Steel Products • Steel Converting Machine Parts 	Steel (ferrous) metals. Compatible with zinc and copper. <p>Application Tips:</p> <ul style="list-style-type: none"> ✓ Removes dirt and debris from steel before mill oils are applied. ✓ Contains no oil or oil-based material. ✓ Water-soluble. 	Cleaning Agent, Concentrate <p>Nox-Rust 9700</p> <ul style="list-style-type: none"> • Synthetic, water-based fluid. • Apply straw-colored, clear, aqueous solution as an additive to cutting fluids, final stage rinse, or dip, spray or brush. • Dries as thin, soft, solid film. • No flash point. • Remove with water/alkaline cleaners. • Lasts 1-12 weeks. • Sold in 55-gallon drums, 5-gallon pails.

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