

Product Data

Nox-Rust® 3100 Rust Preventive Liquid

Description



Nox-Rust 3100 liquid is a solvent/wax-type heavy duty corrosion preventive liquid. It is designed for use on ferrous and non-ferrous metals when exposed to indoor or outdoor storage conditions.

Used as a transit coating, it protects metal and most painted surfaces during domestic and international shipment. Excellent humidity and salt spray protection properties. Best choice for protecting equipment and machinery during export and outdoor environments.

Features



Proven Daubert Cromwell corrosion inhibitor chemistry

- Protects ferrous and non-ferrous metals
- Can be handled after 3-6 hours, sets up in 12-24 hours.
- Low VOC (3.29 lb/gal).
- Dried film is non-tacky, amber colored, wax-like and semi-transparent
- OEM Approved
- Compatible with Daubert Cromwell corrosion inhibitor papers, films and emitters
- Manufactured to meet MIL-C-16173 Class 1 Grade 4.
- Available in aerosol cans, 5-gal drums, 55-gal. drums and totes.

Typical Applications



Transport, export, storage of metal products

- Hose fittings, connectors, and similar exposed areas
- Equipment, machinery, and components during overseas shipments
- Large metal parts stored outdoors
- Long-term indoor storage of metal parts, dies, tools, spares
- Castings and machined surfaces that cannot be protected from the elements
- Fabricated metal components and sub-assemblies

Guidelines for Use



Surface Preparation and Application:

- The metal surface should be clean, dry and free of rust, oil and mil scale. Metal temperature should be between 50-95°F (10-35°C) at the time of application. Apply by dip, brush or spray. When dipped, the wet applied film thickness ranges from 3.0 to 4.0 and will dry in 1 hour to a film thickness of 1.5 to 2.0 mils.
- When using an airless spray system, recommended equipment is a 15:1 or 23:1 type pump, a regulator, 25- or 50-ft. hose, and a P-500 type spray gun with a reversible tip. Tip size could range .315-.317. Spray pressure is typically between 65-80 psi. Recommended starting point is 70 psi, and then adjust as operator determines is best for the application.
- The curing process takes place by solvent evaporation. Allow adequate ventilation. Dry time will be affected by temperature and humidity. Typical dry-to-handle time would be 1-2 hours, and cure in 24 hours. The coating will have self-healing properties for up to 90 days.

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Technical Data

Nox-Rust® 3100 Rust Preventive Liquid

Physical Data

Physical Properties	Typical Values
Color	Amber
Application	Dip, spray or brush
Coverage	400-550 ft ² /gal (9.8-13.5m ² /l)
Removal	Hot pressurized steam with hot alkaline soap, vapor degreasing, mineral spirits.
Film Type	Non-tacky, wax-like, semi-transparent
Specific Gravity @ 77°F (25°C)	0.865
Weight per Gallon	7.21 lbs.
Flash Point (Closed Cup)	124°F
Percent Solids by Weight	50
Viscosity (#2 EZ Zahn) @73°F	120-142 seconds
Film Thickness (mils)	2.0 to 3.0
VOC (lbs/gal)	3.29
Protective Properties	
5% Salt Spray (ASTM-B-117-64)	336 Hours (Min.)
Humidity Cabinet (ASTM-D-1748)	1,500 Hours (Min.)
Outdoor Storage (uncovered)	1 year (Min.)
Indoor Storage	5 years (Min.)

Storage

Store at temperatures between 50-95°F (10-35°C). Mild agitation is recommended prior to use. Material may thicken if stored below room temperature. Warm back to room temperature before use.

Shelf Life

12 months from date of shipping, stored in the original shipping container used by Daubert Cromwell and not in high humidity and not at high temperatures, or stored outside. Store unused VCI liquid in a cool, dry place, away from direct sunlight. Storage outside these conditions voids this statement.

Approvals

RoHS compliant, OEM approved, CAT 1E0330A, CAT 1E0335

Removal

Nox-Rust 3100 liquid can be removed from metal surfaces by most solvent borne thinners , by vapor degreasing , high pressure hot alkaline wash , low pressure steam or using mineral spirits or kerosene –soaked towels.

Note

The addition of any product over or under this coating is not recommended. The use of additional coatings could result in chemical incompatibility, thus adversely affecting the performance of this coating. If a product other than Daubert Cromwell's recommended product is required, written authorization must be obtained from Daubert Cromwell.

WARRANTY The data, statements and recommendations in this product specification sheet are based on testing, research and other development work, which has been carefully conducted by us, and we believe such data, statements and recommendations will serve as reliable guidelines. Physical properties shown above represent typical values and are not intended for use in writing specifications. However, this product is subject to numerous uses under varying conditions over which we have no control, and accordingly, we do NOT warrant that this product is suitable for any particular use. Users are advised to test the product in advance to make certain it is suitable for their particular production conditions and use. All products manufactured by us are warranted to be first class material and free from defects in material and

workmanship. Liability under this warranty is limited to the net purchase price of any such products proven defective or, at our option, to the repair or replacement of said products upon their return to us transportation prepaid. All claims on defective products must be made in writing within 30 days after the receipt of such products in your plant and prior to further processing or combining with other material and products. We make no warranty, express or implied, as to the suitability of any of our products for any particular use, and we shall not be subject to liability from any damages resulting from their use in operations not under our direct control. This warranty is exclusive of all other warranties, express or implied, and no representative of ours or any other person is authorized to assume for us any other liability in connection with the sale of our products.

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