DAUBERT CROMWELL
The Leading Name in Corrosion Prevention®

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Technical Data

NOX-RUST® 3100

(Wax-Based, Solvent Type, Cold Applied)

Nox-Rust 3100 liquid is a wax-based, solvent type, cold applied, corrosion preventive designed for use on ferrous and non-ferrous metals when exposed to indoor or outdoor storage conditions. Nox-Rust 3100 deposits a transparent, firm, wax-like film that is readily removable by conventionally used solvents or degreasing methods. It is formulated to fulfill the requirements of MIL-C-16173-E, Class I, Grade 4 Specification.

Physical Properties	**(Typical Values, Not Specifications)**
Appearance	
Product:	Amber, low viscosity liquid
Film:	Non-tacky, amber, wax-like, transparent film
Viscosity, Ford #4 Cup	120-142 Sec. @ 77°F
Percent Non-Volatile	50% by Weight
Specific Gravity	0.865
Pounds per Gallon	7.21
Flash Point	105°F (Min.)
Low Temperature	Pass--No cracking
VOC (volatile organic content)	3.4 lbs./gal

Protective Properties	**(Typical Values)**
Outdoor Exposure (uncovered)	1 year (min.)
Shed Exposure	5 years (min.)
Salt Spray (ASTM-B-117) @ 2.0 mil DFT	336 hours (min.)
Humidity Cabinets (ASTM-D-1748) @ 2.0 mil DFT	1,500 hours (min.)

Suggested Uses

1. Overseas shipments of unpainted metal parts and engine housings, indoor or outdoor, with or without cover.
2. Indoor protection of automotive body panels.
3. Long term, general purpose protection of metal parts, dies, tools, and rolls, where an easy-to-remove film is needed.

Surface Preparation

The maximum performance of Nox-Rust 3100 can be achieved only when the metal surfaces to be protected are clean, dry and free of rust, oil and mill scale. Daubert Cromwell recommends that the metal substrate temperature be 50-95°F (10-35°C) at the time of product application.

Application
Apply by dipping, brushing or spraying. 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. Under these conditions, coverage is 700 sq. ft. per gallon. Nox-Rust 3100 cures by solvents evaporation. Adequate ventilation is required for cure, and also to prevent the formation of an explosive atmosphere. Further information is provided in the MSDS sheet.

Removal
To remove Nox-Rust 3100 coating from metal surfaces, use hot water steam (160-180°F) with an alkaline cleaner run at 6-10% by volume applied at 1000-1500 psi. Rinse with clean steam. In particular applications where caustic steam cleaning alkalis may cause stress corrosion cracking, use an alkali cleaner with an alkalinity of 11 or below.

Storage
Store at temperatures between 50-95°F (10-35°C). Mild agitation is recommended prior to use.

Caution
Adequate ventilation is required for cure and to ensure against formation of a combustible liquid. THE PARTIALLY CURED FILM SHOULD NOT BE EXPOSED TO IGNITION SOURCES SUCH AS FLARES, FLAMES, SPARKS, EXCESSIVE HEAT, OR TORCHES. Refer to Material Safety Data Sheet for additional handling and first aid information.

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 as stated in the lab data section. If a product other than Daubert Cromwell's recommended product is required, written authorization must be obtained from Daubert Cromwell.

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The data, statements and recommendations in this product information 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.

WARRANTY – 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.