

Nox-Rust® 5400

Weldable Rust Preventive Liquid

Technical Data Sheet

Description Nox-Rust 5400 is a dual-purpose, petroleum-based sheet metal processing lubricant and preservative that also works as a weldable RP. Commonly used for coil stock as a combination corrosion preventive and pre-lube, in blankers (auto-shear) as a wash which leaves behind a lubricant and corrosion preventive film, as a rust preventive spray on steel and steel parts, and as a weldable coating that protects metal surfaces without affecting the quality of the weld.

Nox-Rust 5400 is proven to protect steel surfaces in severe environmental conditions and high humidity. It will not interfere with assembly sealers, adhesives, welding, or cleaning systems, and does not need to be removed prior to welding. Compatible with Daubert Cromwell VCI films, papers, and emitters. Available in aerosol cans, 5- and 55-gallon drums.

- Key Features**
- Weldable rust preventive.
 - Sheet metal processing lubricant and preservative.
 - Does not interfere with assembly sealers, adhesives, or cleaning systems.
 - CAT 1E4958B, 1E4971, 1E4972 THP approved
 - CAT 1E4972 AS, 1E4969 Weldable approved
 - GM 998-1833 approved
 - Ford M4B90A approved



Approvals



Guide for Use and Removal

Metal surface should be clean, dry, and free of rust, oil, and mill scale. Recommended metal substrate temperature is 50-95°F (10-35°C) at time of application. Nox-Rust 5400 is intended to be used as supplied by brush or spray. Apply a thin coat, 1 to 2mil wet, and allow for adequate ventilation for curing and when welding. Heavier applications do not provide better protection, and excess product should be wiped off with a clean, dry shop towel.

Nox-Rust 5400 can be removed using conventional cleaning methods. Material is easily removed during phosphate wash operations and has no adverse effect on subsequent priming, painting or welding operations.

Note: The addition of any coatings or products other than those recommended by Daubert Cromwell over or under this product could result in chemical incompatibility, thus adversely affecting the performance of this product. Please contact your Daubert Cromwell Technical Service Representative for product recommendations.

Storage

Store sealed, in a dry location, out of direct sunlight in temperatures not to exceed 95°F (35°C) or below 50°F (10°C). Storage outside these conditions may affect shelf life.

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.



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Physical Data

Property	Typical Value or Range
Appearance	Amber, oily film
Viscosity, Kinematic @40°C, cSt (ASTM D445)	13.5 - 16.0
Pour point - °F (°C)	< 15 (-9.0)
Specific gravity - g/mL	0.89 @77°F(25°C)
Weight per gallon, lbs (ASTM D1475)	7.4 Typical
pH	n/a
VOC	2.45 lbs/gal
Non-Volatile, % by weight (ASTM D2369)	n/a
Flash point - °F (°C)	248°F (120°C)
Penetration, cone, non-volatile fraction, dmm (ASTM D937)	n/a
Indoor Protection Time	Up to 2 years
Outdoor Protection Time	Up to 6 months, covered

Protection Capabilities

Contact your Daubert Cromwell Technical Service Representative for more information on the best protection solutions for your part or assembly.

- Acid Atmosphere Test, Ford Motor Co. BJ7-6 Result: >16 hrs
- Condensing Humidity Test, Ford Motor Co. BJ7-7 Result: >72 hrs
- Humidity Cabinet (100%RH at 100°F) Result: > 500 hrs
- Stack Test with Zincmetal (100%RH at 100°F) Result: >500 hrs

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. Actual values may vary. 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 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 for 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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1/5/2026 | JAB

