

Product Application Bulletin

Nox-Rust® 1100 VCI-10 Liquid Engine Lay-Up and Preservation



Product Description

Nox-Rust® VCI Liquid 1100 is a volatile corrosion inhibitive lubricating liquid for use in the preservation of ferrous and/or other metal parts in enclosed systems. Combining the protective properties of preservation oil with those of volatile corrosion inhibitors, Nox-Rust 1100 liquid provides long term protection against rust in "closed" systems or voids.

How VCI Works - When the metals are in the proximity of the VCI, the chemicals volatize from the carrier to the metals and form a molecular layer of protection 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.

Types of Engines – For lay-up and preservation of engines in

- **Power Generation**
- Aerospace and Aviation
- Marine
- Machinery

- Military
- Rail
- Motorcycles
- Mining, Exploration, Drilling and Construction
- Agricultural
- Racing, Sport and Collector

Directions

Start with a cold engine (below 100° F). Add required amounts of Nox-Rust 1100 to the crankcase, oil bath air cleaners, and multi-plunger injection pumps. Crank engine over for 20 seconds if possible. Add required amounts of Nox-Rust 1100 to each cylinder through spark plug, glow plug, or injector openings and replace plugs or injectors. Store engine for up to one year. If storing more than one year inspect and represerve annually, as necessary.

Amounts to be Added

For specific amounts of Nox-Rust 1100 for each engine model, see the application service bulletin. If bulletin not available, protect engine as follows;

For Carburetor Engines		
Crankcase including	\checkmark	1 oz. per quart of
crankshaft, bearings,		crankcase oil
rocker arms and	-or	-
surfaces normally	\checkmark	1% by volume
lubricated by		•
crankcase oil.		
Oil Bath Cleaner	\checkmark	1/3 oz. per engine
		cylinder
Fuel Tanks	$\overline{\mathbf{v}}$	2 oz. per gallon on
		tank volume
Fan Diagal Francis		

For Diesel Engines

Telephone: 905-628-3232

Add same amount as carburetor engines and ☑ ½ oz. per engine Injection Pumps

cylinder

☑ Fog 1 oz. per each 7 **Fuel Tanks** 1/2 gallons (1 cu. ft) capacity. If tank contains oil or gasoline, add 1 oz. for each gallon present.

Distributed by: KPR ADCOR INC. USA & Canada Toll Free 1-866-577-2326 Fax: 905-628-2529 www.corrosionvci.com kpr@corrosionvci.com ☑ Fill governor with Nox-Rust 1100 if lubricated separately from engine.

For Drive Clutch and Steering Clutch Assemblies

☑ Fog 3 oz. of Nox-Rust 1100 to the hydraulic test oil. After testing, add an additional 3 oz.

For Transmissions

☑ Add 2% Nox-Rust 1100 to the lubricant.

Sealing - Nox-Rust 1100 gives off a protective vapor which penetrates engine interiors. All openings should be taped or reasonably well closed.

Metals Protected - Nox-Rust 1100 primarily protects ferrous metals (steel and iron) and other metal parts in enclosed systems. While it may cause some discoloration of aluminum, it will not harm aluminum.

Removal – Engines stored in Nox-Rust 1100 may be put into use without concern for removal of Nox-Rust 1100. Injection pumps and hydraulic governors, however, should be drained and refilled with the recommended lubricant.

Packaging and Storage - Nox-Rust 1100 is available in conveniently sized 5 gal (18.9 l) pails and 55 gal (208 l) drums. Store sealed, in a dry location, out of direct sunlight in temperatures not to exceed 100°F (40°C) or below 40°F (5°C).

Other products - Daubert Cromwell has many corrosion inhibitor products for all preservation and packaging requirements, including:

VCI Paper:

 Nox-Rust[®], Vapor Wrapper[®], Protek Wrap[®], Ferro-Galv, Coppertex[®], Silver Saver[®], Alumitex[®], and Uniwrap[®] papers;

VCI Films:

 Premium Metal-Guard, Metal-Guard, Ferro-Film, Clear Pak[®] polyethylene films and bags;

<u>Daubrite[®] emitters</u> <u>Nox-Rust VCI Liquids</u> <u>Nox-Rust VCI Powders</u>

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