



## TECHNICAL DATASHEET

### PRODUCT NAME – RUST-X RP oil 135 Series

### PRODUCT CODE – VCI 400 A Ex (c)

#### PRODUCT DESCRIPTION

RUSTX 400 A Ex Dry (c) series oils contain VCI chemicals which work in contact phase as well as in the vapour phase and protect components by its dual action forming a thin lubricating film on the metal part.

RUSTX – 400 A Ex Dry (c) rust preventive oil is used where dry to touch feel on the component is required without the need to wash the component before fitting. The thin layered rust preventive also reduces the amount of dust accumulation on the part as well as is an excellent rust preventive for OE supplies where assembly line use of the components is required.

The product RUST-X 400 Series is made from Mineral Base oil used for making Engine Oil as well as the Chemicals used as Anti-Oxidants, Rust Preventives are also the same used in the manufacturing of Engine Oils but tweaked for better rust prevention etc. along with normal lubrication additives, Viscosity Index Improvers, Ash less anti-oxidants etc.

The product chemistry and additives are all compliant with Engine Oil Additives and the product is compatible with any Engine Oil such as SAE 30, 40, 15 W 40, 20 W 40 etc. The RP oil after drying doesn't cause any coagulation and after the drying of solvent in 400A Ex is complete, the residues are the additives which are compatible with engine oil additives.

It can be used for both internal and external surfaces of the engine blocks, engine heads, differential housings, gear boxes etc.

This product is made to the spec of MIL – PRF – 400 AEX Dry (C) - MIL – PRF – 63460 – Class Type B

All RUST-X rust preventive oils are Barium & Heavy Metal Free.

#### FEATURES

- Lubricating oil film
- Thixotropic properties
- Long Term Corrosion Prevention
- Electrostatically Sprayable
- Easily washable with water and solvent based products
- Excellent protection against acidic and saline environments
- Non Sticky soft film

#### APPLICATIONS

- Machined Steel Components
- Castings gears, axles, crank shafts
- Forgings, CR sheets
- Bearings, Gears
- Transmission Components
- Axles, Process Equipment
- Flanges, Valves etc.

#### TECHNICAL SPECIFICATION



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Physical Properties	Test Method	Value
Color	Visual	Amber Clear
Viscosity @ cSt @ 40°C	ASTM D 445	2-3 cSt
Specific Gravity	ASTM D 1298	0.78 - 0.83
Film Thickness	IS 2074	1-2 microns
Flash Point (Before application)	ASTM D 92	110 °C
VOC		0.1
Pounds per gallon		
Coverage (sq m/ Lt)		25-50
Pour Point	ASTM D 97	Below -5°C
Saponification		5.0-7.0
Wash ability		Yes
Removability		Yes
Engine Oil		Pass
Paint ability	Yes, if concentrate	
Dry Time	15-30 minutes	
Salt Spray in VCI Packaging	ASTM B 117	Minimum 48 hours +
Humidity Chamber	ASTM B 117	500 hours +
Indoor Protection Life (open)	ASTM D 1748	2 months
Indoor protection life (packed)		2 years
Packaged Protection Life (In VCI Packaging)		Upto 5 Years

## APPLICATION PICTURES



## APPLICATION METHOD

It can be sprayed or a few drops can be added fuel tank and a compressed air spray can be used to spray the oil in the fuel tank in a ratio of 7---20 ml depending on the size of fuel tank 100---150 ml can added in the engine circulation system.

For protection of gears, engine parts, machined



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components 2---5% can be added in base oils, hydraulic oils , solvents. Dipping by far is the best method for establishing an even layer on the component.

Other methods may be used such as mist spraying, electrostatic spraying, brushing, automatic conveyor spray or dip process pray. It is important that the complete surface of the component is coated with the rust preventive oil.

#### PACKAGING AND STORAGE

Store in a cool dry place and always keep RPO sealed when not in use.

#### DISPOSAL

Recommendation: Do not allow product to reach sewage system.

Disposal of product or waste must comply with official local regulations.

Packaging that cannot be recycled must be disposed in the same manner as the product.

#### HEAVY METALS DECLARATION

RUST-X Rust Preventive products do not contain Lead (Pb), Mercury (Hg), Cadmium (Cd), Hexavalent Chromium (Cr6), Polybrominated biphenyls (PBB), or Polybrominated di-phenylether complying with the

re-stricted substances listed in Article 4(1) of the RoHS Directive. RUST-X Rust Preventive Oils are also REACH Compliant for exports to the European Union.

#### SAFETY INFORMATION

- Keep Out Of Reach Of Children
- Keep Container Tightly Closed
- Not For Internal Consumption
- Consult Material Safety Data Sheet For More Information
- Safe for people
- This product does not pose a health hazard to users due to its classification as an article according to EU REACH, UN GHS, US OSHA HazCom and CA WHMIS regulations.
- Rust-X VCI chemistry is safe for sensitive electronics. Rust-X VCI chemistry imposes No galvanic effects, residues or changes in the properties of metals. The protective molecules dissipate upon opening of package.

#### DECLARATION

This Data sheet and information it contains is considered to be accurate at the date of printing. No representation or warranty, expressed or implied is made as to the accuracy or completeness of the data and information contained in this publication. It is the User's obligation to evaluate and use products safely and within the scope advised in the data sheet and to comply with all applicable laws and regulations.

#### LIMITED WARRANTY

All statements, technical information and



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recommendations contained herein are based on validations and tests conducted by HI TECH INTERNATIONAL/RUST-X or its partners and are believed to be reliable, but the accuracy or completeness thereof is not guaranteed. We warrant our products will be free from defects when shipped to customer. Our obligation under this warranty shall be limited to replacement of product that proves to be defective. To obtain replacement product under this warranty, the customer must notify Rust-X, Hi Tech International or its partners or agent of the claimed defect within 3 months after shipment of product to customer. Customer shall pay all freight charges for replacement products. We shall have no liability for any injury, loss or damage arising out of the use of or the inability to use the products. And any financial claims shall be limited to the value of the film sold.

Algeria Angola Argentina Australia Austria Bangladesh Belarus Belgium Bhutan Bolivia Brazil Canada Chile China Colombia Czech Republic Democratic Republic of the Congo Denmark Ecuador Estonia Finland France Gabon Germany Hungary India Indonesia Ireland Italy Japan Kazakhstan Korea Latvia Lithuania Luxembourg Malaysia Mexico Monaco Morocco Nepal Netherlands Nigeria Norway Peru Philippines Poland Portugal Republic of Congo Romania Russia Singapore Slovak Republic Slovenia South Africa Spain Sri Lanka Sweden Switzerland Taiwan Thailand Tunisia Turkey Ukraine United Arab Emirates and MENA (Middle East & North Africa) United Kingdom United States Uruguay Vietnam

Before using, user shall determine the suitability of the product for its intended use, and user assumes all risk and liability whatsoever in connection therewith. No representation or recommendation not contained herein shall have any force or effect unless in a written document signed by an officer of the company. The foregoing warranty is exclusive and in lieu of all other warranties, express, implied or statutory, including without limitation any implied warranty of merchantability or of fitness for a particular purpose. In no case shall HI TECH INTERNATIONAL/RUST-X be liable for incidental or consequential damages.

## GLOBAL SUPPORT

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