



TECHNICAL DATASHEET

PRODUCT NAME – RUST-X Cleaning Medias Agents

PRODUCT CODE – CL000, CL002 & CL005

PRODUCT DESCRIPTION

Rust-x Cleaning agents are order less and solvent based washing systems have various advantages owing to the fact that they don't have any water present which may later on corrode the components. Steel components get corroded due to water present in aqueous cleaning systems. Aluminum components develop white rust caused due to presence of water, high-pH deposits, salts, finger marks as well as atmospheric gases.

RUSTX Manufactures specialized cleaning media with rust preventive properties, de-greasing, de-watering & cleaning properties for aluminum components. The following are the features and advantages of the product:

The product has a high flash point and can be used for protection of Cold Rolled Steel, Engine Components, as well as large equipment where indoor open storages are required.

The VCI action of the oil makes it suitable for spraying within hollow equipment such as boilers, heat exchangers, reactors, storage tanks, pipes etc. The VCI fraction evaporates and reaches hard to reach surfaces where the direct oil spray cannot reach and protects the equipment from corrosion.

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

FEATURES

- **Dewatering:** CL000, CL002 & CL005 are excellent de-watering agents and remove water from the surface or cavities of the component
- **Degreasing:** These are also effective in removing dirt, dust, greases, metal particles, cutting oils etc.
- **Leak Testing:** CL000, CL002 & CL005 ODL are transparent & ordure less solutions and can be used for leak testing in place of water as water left from leak testing may cause corrosion if not dried completely.
- **High Flash Point:** The product has a high flash point of 100°C and does not catch fire easily compared to the generic products based on Carbon Tetrachloride, Benzene etc.

USAGE

Dipping by far is the best method for establishing an even layer on the component. Use of gloves while handling the components as well as immediate packaging is important. In case the components carry cutting oils or water from previous processes, dewatering with CL005 is recommended.

There is no detrimental effect on the adulteration of the Cleaning Media with the Rust Preventive and



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hence there is no need to dry it completely. Just rinsing and draining the excess cleaning media is sufficient.

Degreasability @ 40oC FC-L4480, 18 Passes g/ Ltr. @ 40°C
Humidity Chamber ASTM D 1748 240 hours + Test

TECHNICAL SPECIFICATION

Physical Properties	Test Method	Value
Colour	ASTM	4.0
Viscosity @ cSt @ 40°C	ASTM D 445	<1-2 cSt
Specific Gravity	ASTM D 1298	0.8 - 0.870
Flash Point (Before application)	ASTM D 92	100 °C
Viscosity @ cSt @ 40°C		5.1-5.5
Flash Point (after application)	ASTM D 92	>100 °C
Volatiles by % (by weight)		95-100%
Coverage (sq m/ Lt)		<200
Pour Point	ASTM D 97	Below -5°C
Sapomnification		5.0-7.0
CL 000 Film Thickness		0 Microns, 100 % Dry
CL 002 Film Thickness		0.3 Microns 98 % Dry
CL 005 Film Thickness		0.5 Microns 96 % Dry
Water Displacement Test		Passes

PACKAGING AND STORAGE

Store in a cool dry place and always keep Cleaning Media agents sealed when not in use.

APPLICATIONS

The solution provides short term corrosion protection for up to 1 month on shop floor for CL 002 & CL 005. CL 000 provides no intermediate corrosion prevention.

APPLICATION PICTURES



DISPOSAL

Recommendation: Do not allow product to reach sewage



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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 restricted 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 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.



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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.



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