



TECHNICAL DATASHEET

PRODUCT NAME – RUST-X NEAT CUTTING OILS

PRODUCT CODE – Neat Cut 12, 22, 32, 68 & 100

PRODUCT DESCRIPTION

Rust-X neat cutting oils provide the best cooling properties, rust preventive properties and lubrication to the metalworking. Ideal for light machining to heavy duty operations such as hobbing, cutting, grinding, honing, turning & drilling operations.

Rust-X Neat Cutting Oils are highly compatible with hydraulic oils and in a number of machines can be used as Power Pack for Hydraulics as well as for Hobbing or cutting operations. This allows total miscibility of the product between hydraulics and cutting fluid. Neat cutting oils as opposed to soluble or synthetic cutting fluids provide high levels of lubrication to help reduce frictional heat as the cutting tool penetrates the metal or rubs against the swarf. Neat oils also save energy by reducing cutting forces.

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

FEATURES

- Soft metal safe – Suitable for all metals including soft metals such as brass, copper and aluminum
- Suitable for hand and machine cutting
- Excellent cooling properties – Consistently produces clean sharp cutting edges. Keeps

blades sharp. Prevents cutting tools from seizing to metal substrates.

- Extreme Pressure Resistant – Increases tool life, improves surface finish
- Film clings to vertical surfaces – Allows work at any angle
- Anti-corrosive residue

TECHNICAL SPECIFICATION

Physical Properties	NC 12	NC 32	NC 68	NC 100
Viscosity (cSt @40 °C)	12-15	32-36	68-75	100-110
Density	0.9	0.9	0.9	0.9
Odour	None	None	None	None
Appearance	Amber	Amber	Amber	Amber
Flammability	Low	Low	Low	Low
Flash Point	190	220	220	220
Copper Corrosion Test(3 hours@10	No Stain	No Stain	No Stain	No Stain
Cast Iron Corrosion Test	Pass	Pass	Pass	Pass



TECHNICAL DATASHEET

PRODUCT NAME – RUST-X NEAT CUTTING OILS

PRODUCT CODE – Neat Cut 12, 22, 32, 68 & 100

APPLICATIONS

- Secondary functions of a neat cutting oil include
- The removal of swarf and dust
- Lubrication of other parts of machinery such as slide ways and screws
- Corrosion protection of the work piece and exposed metal parts of the machine tool Neat cutting oils are used where there is
- High stock removal
- High quality surface finish requirements
- Slow speeds, high feeds

USAGE

- Direct flow stream on the part
- Apply a liberal coating to the area to be worked.
- Machine cutting: reapply frequently.
- Hand cutting: Reapply when increased force is required.

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.

PACKAGING AND STORAGE

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

APPLICATION PICTURES



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



TECHNICAL DATASHEET

PRODUCT NAME – RUST-X NEAT CUTTING OILS

PRODUCT CODE – Neat Cut 12, 22, 32, 68 & 100

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
- 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.

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



TECHNICAL DATASHEET

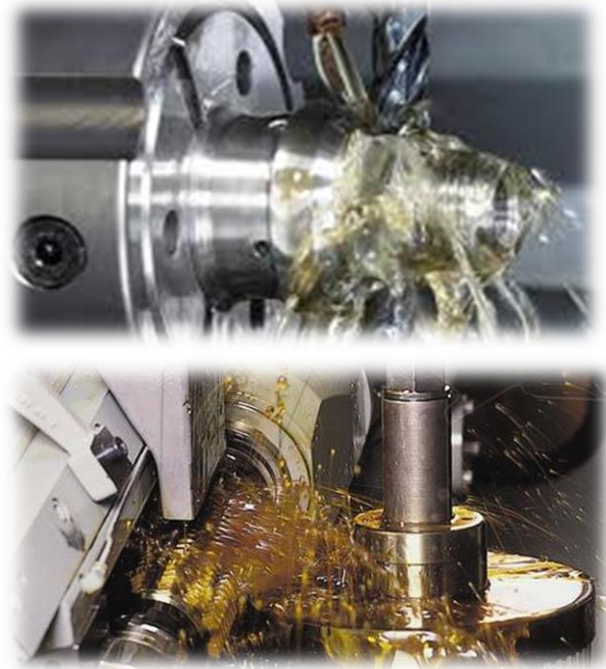
PRODUCT NAME – RUST-X NEAT CUTTING OILS

PRODUCT CODE – Neat Cut 12, 22, 32, 68 & 100

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

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



DISTRIBUTED BY:

FOR INDUSTRIAL USE ONLY
Revision No. 3 Revision Date: 1st March 2019