



**RUST-X USA**

# Technical Datasheet

Product: RUST X Quenching Oil  
Grade: 39

TDS No. 400064  
Publication Date: 1<sup>st</sup> April 2016

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## Product Description

Exports of automotive components are a very critical task which requires specialized Rust Preventive Packaging schemes in synergism with highly effective rust preventive oils.

Quenching Oils are designed for the quenching of metals. These oils are recommended for use where maximum hardness and high speed quenching of the metal is not important.

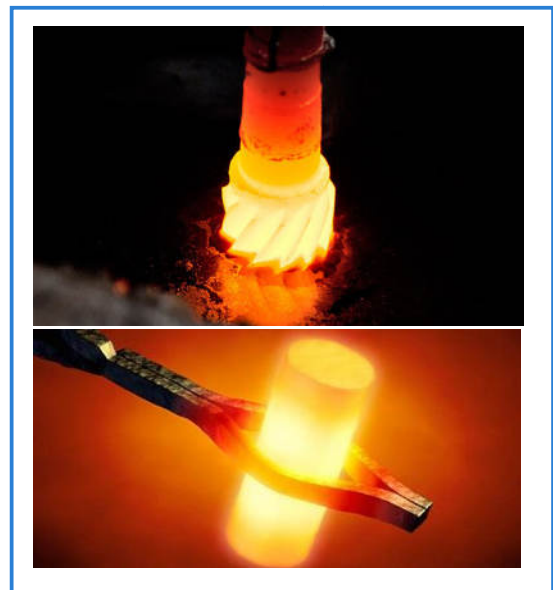
Quenching Oil 39 recommended when faster, deeper and more uniform hardening is required in steels with wide variations in grain size and alloy content. Because of its excellent oxidation resistance, longer bath life is realized.

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.

## Product & Application Images



## Suitable For

Normal speed quenching of ferrous metals such as carbon steel, gray iron and steels.

## Features

- Accelerated quenching characteristics
- Imparts uniform hardness to quenched components
- Reduced consumption due to low volatility properties
- Lower oil loss due to reduced oil carry over
- Good chemical and oxidation stability
- Suitable for large scale automation
- This is non corrosive & non toxic
- High flash Point

## Application Method

- Hardening of Medium Carbon and Low Alloy Steels
- Hardening of components subject to distortion, especially suited for components like Gears, Blade Steels, complex section of transmissions parts and bearing rings etc
- Hardening of Carburized and carbonitrided components
- Suitable for use in continuous Furnaces, Sealed quench Furnaces and open quench tanks

## Properties

Physical Properties	Test Method	Value
Colour	Visual	Amber Clear
Viscosity @ cSt @ 40°C	ASTM D 445	38-40
Flash Point (before application)	ASTM D 92	190 °C
Viscosity Index	ASTM D 2270	97
Density @ 15 °C	ASTM D 1298	0.875
Film thickness	IS 2074	
Pour Point	ASTM D 97	-4 °C
GM Quench speed, Seconds	ASTM D 3520	25.5

### Packaging

26 Liters Can & 210 Liters Barrel

### Disposal

Wastes should be disposed off in accordance with local regulations.  
**Recommendation:** Do not allow product to reach sewage system.  
Disposal must be made according to official regulations.  
Packaging that may not be cleansed must be disposed off in the same manner as the product.

### Safety Information

RUST-X Rust Preventive Oils 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.

### 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

Revision No. 8    Revision Date: 1<sup>st</sup> April 2016