

# ANTIRUST TERAMI LS-F

## Barium-Free Solvent-Diluting Long-Term Rust Preventive Oil (Fingerprint Remover Type)

**ANTIRUST TERAMI LS-F** is a barium-free, solvent-diluting, long-term rust preventive oil developed based on years of research and experience. It excels in removing chloride and sulfate ions derived from fingerprints, which are factors in rust formation.

Many rust preventive oils contain barium-based rust inhibitors. However, there are concerns about the impact of certain barium compounds on human health, even though they differ from these compounds. As a result, some regions (countries and states) in Europe and the United States are moving to strengthen regulations on barium and barium compounds. Additionally, in export-oriented industries, there is a trend to voluntarily limit the use of barium-based rust preventive oils. **ANTIRUST TERAMI LS-F** offers rust prevention performance equivalent to conventional barium-based rust preventive oils, making it a reliable choice for rust prevention of export products and parts. **ANTIRUST TERAMI LS-F** is classified as NP-3-2 under JIS (Japanese Industrial Standards) K 2246.

### ● SPECIAL FEATURES

#### 1. Excellent Rust Prevention

**ANTIRUST TERAMI LS-F** provides superior rust protection due to the carefully selected mineral oil and rust inhibitors.

#### 2. High Flash Point

Although **ANTIRUST TERAMI LS-F** is a solvent-diluting rust preventive oil, it has a relatively high flash point.

#### 3. Easy Removal Capability

The film of **ANTIRUST TERAMI LS-F** can be easily removed using organic solvents or alkaline cleaning solutions.

#### 4. Excellent Fingerprint Removal

(1) Since **ANTIRUST TERAMI LS-F** has both fingerprint removal and long-term rust prevention characteristics, you can unify the cleaning process aimed at removing fingerprints from parts handled with bare hands and the long-term rust prevention treatment process before shipping.

(2) **ANTIRUST TERAMI LS-F** is effective in removing rust generated by fingerprints on parts where other fingerprint-removal rust preventive oils or long-term rust preventive oils have been applied.

#### 5. Excellent Workability

(1) Rust preventive oils containing metal can generate deposits or blockages after heat treatment of parts or sintered metal parts with pores. As **ANTIRUST TERAMI LS-F** does not contain metal, such problems are not caused.

(2) **ANTIRUST TERAMI LS-F** does not contain petrolatum, reducing stickiness and making it easier to filter foreign substances in applications involving precision parts.

#### 6. Environmentally Friendly

**ANTIRUST TERAMI LS-F** does not contain barium-based additives, making it highly compatible with environmental standards.

## ● APPLICATIONS

For various machine parts and precision components

## ● CONTAINERS

200-liter drum and 20-liter pail can

## ● COATING METHOD

Immersion, Spraying, Brushing

## ● TYPICAL PROPERTIES OF ANTIRUST TERAMI LS-F


Color	(ASTM)		L2.0
Density	(15°C)	g/cm <sup>3</sup>	0.846
Kinematic viscosity	(40°C)	mm <sup>2</sup> /s	5.72
Flash point	(COC)	°C	94
Fingerprint removal			Pass
Water displacement			Pass
Metal strip corrosion			Pass
Humidity cabinet test	(Class A holding time)	h	>1,200
Salt spray test	(Class A holding time)	h	> 24
Rust protection	(Indoors)	months	6
Type of coating			Semi-dry and transparent film
Film thickness		μm	3

Note: The typical properties may be changed without notice (May 2024).



## Handling Precautions

▼ Follow these precautions when handling this product.

<b>Composition :</b>	Base Oil(s), Additives
<b>Hazard pictograms:</b>	
<b>Signal word:</b>	Danger
<b>Hazard Statement:</b>	Combustible liquid Causes serious eye irritation May cause genetic defects Suspected of damaging fertility or the unborn child May be fatal if swallowed and enters airways Harmful to aquatic life
<b>Precautionary Statements:</b> <b>Prevention</b>	<ul style="list-style-type: none"><li>• Do not handle until all safety precautions have been read and understood.</li><li>• Wear protective gloves/protective clothing/eye protection/face protection.</li><li>• Do not allow the eyes to become exposed to the product. Do not swallow the product.</li><li>• Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li><li>• Avoid release to the environment.</li><li>• Obtain special instructions before use.</li><li>• Wash hands thoroughly after handling.</li><li>• Do not eat, drink or smoke when using this product.</li></ul>
<b>Response</b>	<ul style="list-style-type: none"><li>• IF SWALLOWED: Immediately call a POISON CENTER/doctor.</li><li>• IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</li><li>• If the eyes are exposed to the product: Rinse the eyes with plenty of running water and immediately contact a physician.</li><li>• IF ON SKIN: Wash with plenty of soap and water.</li><li>• IF exposed or concerned: Get medical advice/attention.</li><li>• IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li><li>• If eye irritation persists: Get medical advice/attention.</li><li>• Do NOT induce vomiting.</li></ul>
<b>Storage</b>	<ul style="list-style-type: none"><li>• The product must be stored in a cool, well-ventilated location where it will not be exposed to direct sunlight.</li><li>• Containers that have been opened must be tightly sealed.</li><li>• Store in a well ventilated place.</li><li>• Store locked up.</li></ul>
<b>Disposal</b>	<ul style="list-style-type: none"><li>• Dispose of contents/container in accordance with local/regional/national/international regulations.</li><li>• If there are any doubts about proper methods of handling the product, contact the point of purchase before proceeding with usage.</li></ul>