

ANTIRUST TERAMI LS-W(N)

Barium-Free Solvent-Diluting Long-term Rust Preventive Oil (Water Displacement Type)

ANTIRUST TERAMI LS-W (N) is a barium-free, solvent-diluting, long-term rust preventive oil developed based on years of research and experience. It also has the capability to remove residual water when water-soluble cutting fluids or cleaning agents are used in previous processes. **ANTIRUST TERAMI LS-W (N)** does not contain petrolatum, which can cause stickiness, making it excellent in workability.

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-W (N)** offers rust prevention performance equivalent to conventional barium-based rust preventive oils, making it a reliable choice for long-term rust prevention of export parts. Additionally, it uses low-odor additives, contributing to an improved working environment. **ANTIRUST TERAMI LS-W (N)** is classified as NP-3-2 under JIS (Japanese Industrial Standards) K 2246.

● SPECIAL FEATURES

1. Excellent Water Displacement Property

ANTIRUST TERAMI LS-W (N) excels in removing residual water from metal processing parts, especially when water-soluble cutting fluids or cleaning fluids are used in the previous process. When used for the purpose of water removal, the immersion method is effective, while brushing and spraying provide much less effective water removal.

2. Excellent Rust Prevention

ANTIRUST TERAMI LS-W (N) provides excellent rust prevention due to the carefully selected mineral oil and rust inhibitors.

3. High Flash Point

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

4. Easy Removal Capability

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

5. Excellent Workability

ANTIRUST TERAMI LS-W (N) does not contain film-forming agents like wax, making it ideal for cleaning precision parts to remove foreign substances. Additionally, it is easy to filter.

6. Environmentally Friendly

ANTIRUST TERAMI LS-W (N) does not contain barium-based additives, making it highly compatible with environmental standards. Additionally, it uses low-odor additives, improving the working environment.

● APPLICATIONS

For steel products such as various machine parts and precision machine parts

● CONTAINERS

200-liter drum and 20-liter pail can

● COATING METHOD

Immersion (in case of water displacement),
Brushing, Spraying

● TYPICAL PROPERTIES OF ANTIRUST TERAMI LS-W(N)


Appearance			Light yellow liquid
Color	(ASTM)		L2.0
Density	(15°C)	g/cm ³	0.830
Kinematic viscosity	(40°C)	mm ² /s	3.92
Flash point	(PM)	°C	83
Water displacement	(JIS K2246)		Pass
Water displacement speed on steel plate	(ENEOS method)		
Tap water			Within 5 seconds
Water-soluble cutting oil (Type A1, No.1, 10%)			Within 5 seconds
Water-soluble cutting oil (Type A3, No.1, 3%)			Within 5 seconds
Humidity cabinet test	(Class A holding time)	h	>1200
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	2-3

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



Handling Precautions

▼ Follow these precautions when handling this product.

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