

Technical Data Sheet



RLT-P907 Anti-rust Oil

1. Product Introduction

RLT-P907 anti-rust oil is formulated with petroleum solvent compounded with high-efficiency composite anti-rust additives. The product features outstanding salt spray resistance and damp-heat anti-rust performance, specially developed for ferrous metal anti-rust storage protection. It is widely applied to the surface rust prevention of steel, iron and other ferrous metals, including complete mechanical equipment, precision machined parts, stamping components, castings and other metal workpieces, forming a uniform protective film to isolate corrosive media and provide long-term stable anti-rust protection.

2. Typical Physicochemical Indicators

Test Item	Standard Index	Actual Test Result	Test Standard
Appearance	Light yellow transparent liquid	Compliant	Visual inspection
Flash Point (°C)	≥38	40	GB/T 261
Film Form	Hard film	Hard film	SH/T 0063
Low-temperature Adhesion Performance	Qualified	Qualified	SH/T 0211
Water Displacement Performance	Qualified	Qualified	SH/T 0036
Spraying Performance	Continuous intact film	Qualified	SH/T 0216
Separation Stability	No stratification, no phase separation	Qualified	SH/T 0214
Dry Film Thickness (μm)	≤15	12.96	SH/T 0105
Damp Heat Resistance (45# steel, h)	≥480	≥480	GB/T 2361

2. Recommended Application Method

Two construction processes are available for on-site use:

Soaking Process: Immerse clean and dry metal workpieces fully into RLT-P907 anti-rust oil for sufficient infiltration, take out and air-dry naturally to form a solid protective film.

Spraying Process: Use professional spraying equipment to evenly spray the product on the metal surface, ensure full coverage without missing areas, and air-dry to form a continuous anti-rust film.

3. Operation, Storage & Transportation Precautions

Avoid mixing with other types of oils, solvents or chemical agents during use, storage and transportation; mixing will cause product performance degradation and loss of anti-rust effect. Strictly avoid water, dust, metal scraps and other impurities contaminating the product liquid, which will affect film-forming quality and stability.

The product has a certain flash point; keep away from open fire, high-temperature heat sources and static electricity during operation and storage, and ensure good ventilation in the operation workshop.

Wear matched protective gloves and masks during long-term contact to avoid prolonged direct skin contact with the oil liquid.

4. Anti-rust Service Life

When workpieces are treated with standard construction process and stored under normal indoor sealed, dry and ventilated conditions, the effective anti-rust protection period can reach 2–3 years.

6. Packaging Specification

Large barrel: 160kg / 200L iron drum

Small barrel: 14kg / 18L plastic drum

7. Disclaimer

All data listed in this technical data sheet are typical test values obtained under standard laboratory test conditions, for reference only. Actual performance shall be subject to on-site construction environment, workpiece material, surface pretreatment and storage conditions. Users shall conduct pre-verification tests according to actual working conditions before mass use.