Technical Data Sheet

RLT-P141
Water Based Rust Inhibitor

Description

RLT-P141 rust inhibitor is a high-quality and high-efficiency water-soluble rust inhibitor. It is composed of long carbon chain polycarboxylic acid and organic amine, without phosphorus, boron and other elements. The product has excellent water solubility, transparent water solution and excellent rust resistance. It is suitable for anti-rust of ferrous metals in the process of machinery manufacture and maintenance, semi-finished products and finished products. It is suitable for iron series materials such as cast iron, carbon steel and alloy steel.

Features and benefits

- Strong rust resistance, good protection for ferrous metals at low concentration.
- Good water - soluble, can be mixed with water in any proportion.
- Low residue, easy to clean by water - based cleaner or solvent cleaner.
- Good adaptability to hard water.
- Waste liquid treatment is convenient and environmentally friendly.

Typical physical and chemical properties

Test item	Test method	Technical index
Appearance	Visual test	Brown translucent - transparent
Diluent appearance, 1%wt	Visual test	Colorless and transparent
PH value, 1% wt	PH meter	8.96
Density @ 20℃		1.153
Rust protection (cast iron, 0.5%wt, 18-25℃, 2h)	JB/T9189-2010	Grade 0, no rust
Corrosion (45# steel, 55±2℃ full immersion, 168h)	GB/T 6144	Qualified
Nitrite, mg/L	Precision nitrite test paper	None

Application

1. It can be used as an anti-rust additive in metal processing fluid.
2. It can be directly diluted and used as anti-rust water for ferrous metals.
3. It can be applied to surface treatment agents such as dewaxing water, passivating liquid, sealant, emulsifying antirust liquid, antifreeze liquid, water quenching liquid, water-borne antirust paint, etc.

Usage

1. Recommended concentration: 0.2% - 2%. The use concentration can be adjusted appropriately according to the requirements of rust prevention.
2. Working temperature: normal temperature can be used, heating can improve drying efficiency, but do not boil, otherwise the concentration changes greatly.
3. Treatment time: soak for 2-5 minutes, spray for 2 minutes.
4. Before processing: before rust-proof treatment, the workpiece needs to remove the original rust, otherwise it will affect the effect of rust-proof.
5. After processing: the workpiece drying or natural drying that the formation of rust film.
6. After anti-rust treatment, rain water or other liquids should be prevented from contaminating, so as to avoid the failure of anti-rust.

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