

# Water-based rust inhibitor

## ● Performance Overview

Maxtop Water-based rust inhibitor (MTWBRI) is an environmentally friendly water-based rust preventive liquid compounded from multiple surfactants and rust inhibitors. It appears as a colorless to light yellow liquid. Cost-effectiveness, it can replace oil-based rust inhibitors and reduce treatment costs by more than 30%. Convenient to use, infinitely water-soluble, supports immersion, spraying and brushing. No cleaning required. The film is transparent and leaves no residue. Adapt to high humidity and salt spray environments.



## ● Features

### 01

It has strong anti-rust performance and has the dual effects of rust prevention and passivation. It can replace steel passivators and play a passivation role; it can also replace ordinary anti-rust oil and play an oil film sealing and anti-rust role.

### 02

This water-based rust inhibitor completely eliminates the floating dust residue problem of traditional rust-proof water, and eliminates the greasy dust sticking problem of traditional rust-proof oil.

### 03

This water-based rust preventive does not contain mineral oil and can eliminate the need for cleaning procedures.

### 04

When diluted with water, it forms a stable and transparent anti-rust liquid. The workpiece can be operated with water, which is easy to use.

## ● Application Scenario

It is suitable for the anti-rust protection between processes of cast iron, carbon steel, alloy steel, mold steel and other materials and the short-term anti-corrosion and rust prevention of its parts. The immersion time is not less than 180 seconds, and the anti-rust period can reach more than 3 months depending on its usage concentration.

# Water-based rust inhibitor performance indicators

Project	Quality indicators	
mode	MTWBRI-60	MTWBRI-30
Brix%stock solution	55-65	25-35
Appearance	Light yellow transparent liquid	
proportion	> 1	
Solubility	Unlimited water soluble, alcohol soluble, ether soluble	
pH of stock solution	8~10	
5% working solution	8~10	
Surface tension (mN/m) is not greater than	40	
Lamination test cast iron 5% concentration 35°C	48hours rust-free	
Other property descriptions	It is suitable for the anti-rust protection of cast iron, carbon steel, alloy steel, mold steel and other materials during the process and the short-term anti-corrosion and anti-rust of its parts. The anti-rust period can be from a few days to 3 months depending on the concentration used.	
Storage period	1 year	

## How to use

- (1) Preparation: Before using water-based rust inhibitor, you need to make sure the workpiece surface is clean and free of oil. If there is oil or rust on the workpiece surface, you need to remove oil and rust first. You can use a metal pretreatment "two-in-one" product or clean it by mechanical methods such as shot blasting and sand blasting.
- (2) Dilution ratio: The dilution ratio of water-based rust inhibitors varies depending on the specific product and usage scenario. The generally recommended concentration is 5% -8% , but the concentration can be appropriately increased during high-pressure spraying and ultrasonic cleaning.
- (3) Immersion method: Immerse the workpiece in a diluted water-based rust inhibitor for 2-4 minutes. After soaking, the workpiece needs to dry naturally.
- (4) Spraying method: Use a spray gun to evenly spray the diluted water-based rust inhibitor on the surface of the workpiece.
- (5) Ultrasonic cleaning: Use an ultrasonic cleaner at temperatures above 60°C for better cleaning results .

