



# JCHEM-RR

Technical Bulletin

## 4 IN 1 RUST REMOVER

( WITH ADDED CORROSION INHIBITOR)

**4 IN 1 RUST REMOVER** is a very versatile liquid product for degreasing, derusting and corrosion inhibition of steels. It provides an organic conversion phosphate etching & inhibit rust creep.

**4 IN 1 RUST REMOVER** can also be used in removing stain and rust from mild steels and GI or EG galvanized steel without damaging the surface.

**4 IN 1 RUST REMOVER** contains a special corrosion inhibitor, which would prevent metal surface from rust creeping.

**4 IN 1 RUST REMOVER** can be used as conditioner prior to iron or zinc phosphating process.

### CHARACTERISTICS

1. A liquid product to provide organic conversion coating.
2. Removes normal shop oil and dirt.
3. Remove rust.
4. Easy to operate.
5. Can be used in room temperature.
6. Safe on EG, GI and plated steels.

### OPERATING INSTRUCTIONS

**4 IN 1 RUST REMOVER** is normally operated by immersion at following operating variables:-

Concentration	: 5 - 10 % by volume.
Temperature	: 50 - 60°C.
Immersion time	: 1 - 2 minutes.

**4 IN 1 RUST REMOVER** can also be used at room temperature, however the concentration should be increased to 10 – 20% by volume.

Where work is heavily coated with oil, Pre-clean with solvent should be used as a pre-wipe.

### Rust Removal

Light surface rust or oxidation deposits can normally removed during the normal immersion process. It can also be done by wiping with neat solution. Rapid removal of heavier rust can be carried out by soaking in 10 - 20% solution with temperature of 55 degree Celsius.

### Control Procedure

**4 IN 1 RUST REMOVER** can be easily controlled by Total Acid Titration.