



Rust Off

JCHEM RO is a water base compound for metal treatment. When **JCHEM RO** applied to rusted metal, it chemically converts the rust (iron oxide) into metal phosphate. Thus form an inert, hard and grayish surface, as durable protective coating layer. It halts existing rust, prevents future corrosion, and produces a firm base for paint.

JCHEM RO can also be used on new ferrous metal, galvanized iron and aluminum. It produces a toothed, slightly porous surface that paint could grip and cling, forming a tight and long lasting bond.

Key Features

Act as rust converter and effective paint primer. Convenient to be applied either by brush, spray, dip or swab. And no mixing required. Water based, *no flammable*, easy to use and clean up. Water-thin liquid provides wider surface coverage. Less wastage, will not gel or dry easily after container opened. Formulated with wetting agents and catalyst. For maximum penetration, fast and complete reaction with rust.

Application

Does not contain mercury, lead, chromate and ozone-depleting substance. **JCHEM RO** converts rust on any ferrous metals and galvanized iron. Applicable for vehicle parts, train, ships, tanks, pipe fittings, fences, roofs, iron grills or windows, any kind of steel based structures, plates or sheets etc.

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Composition/Ingredients

Compositions	CAS No.	Weight Content (%)	Exposure Limits
Phosphoric Acid	7664-38-3	<40	1ppm
Diethylene GulcoMono Ethyl Ether	111-90-0	< 20	50 ppm
Proprietary Additives	Secret	< 10	
Nitric Acid	7697-37-2	< 5	2 ppm

Physical Properties

Physical and Chemical Properties	Volume
Physical State	Liquid
Colour/Appearance	Clear/Transperant
Odor	Acerbic
Specific Gravity 20 °C	1.20-1.22
pH	1.00-1.50
Boiling Point	100 °C
Evaporation Rate	< 1
Volatility, % vol	52
Vapor Density	>1 (air : 1)
Vapor Pressure 20 °C	Undertermined
Solubility	Completely Soluble in water



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Use Techniques (Surface preparation)

On Rusted Surface

Remove loose rust, built-up and scale by wire brushing, sanding or grit blasting. Apply **JCHEM RO** by brush, spray, dip or swab, then let dry. If smooth painted surface is required, lightly sand to level the surface prior to painting.

On New Ferrous Metals, Aluminum And Galvanized Iron.

Remove oils or grease with mineral solvent or degreaser. Apply **JCHEM RO** by brush, spray, dip or swab, then let dry. If smooth painted surface is required, lightly sand to level the surface prior to painting.

CAUTION

Keep away from sparks, flames or any other sources of ignition. Keep away from sunlight and do not expose to the temperature exceeding 50C. Keep out of reach of children.

NOTES

The information contained herein is produced in good faith and is believed to be reliable but is for guidance only. **JCHEM RO** and its agents cannot assume liability or responsibility for results obtained in the use of its product by persons whose methods are outside or beyond our control. It is the user's responsibility to determine the suitability of any of the products and methods of use or preparation prior to use mentioned in our literature and furthermore the user's responsibility to observe and adapt such precautions as may be advisable for the protection of personnel and property in the handling and use of any of our products.

Rust Off Application Demo File

Before Applying Rust Off



After applying Rust Off



JChem Engineering Sdn Bhd

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