

# RPA 500

## AQUEOUS BASED SYNTHETIC CORROSION PREVENTATIVE

### ▷ PRODUCT DESCRIPTION

**RPA 500** is a water dilutable corrosion inhibitor based on the select volatility of amine chemistries. RPA 500 is recommended for applications that require short-term (1-3 months) to long term (12-16 months) indoor protection of cast iron and steel alloys. RPA 500 contains no diethanolamine or nitrites.

RPA 500 is an effective rust inhibitor at low concentrations. It is completely soluble in water and may be used as an in-process rust inhibitor. Due to the product's solubility, you can tailor the product's concentration to meet your protection requirements. RPA 500 forms a near imperceptible film on machine parts for excellent corrosion protection without forming a sticky residue. It is also compatible in a wide range of water hardness. The clear dilution makes it ideal choice for leak test baths.

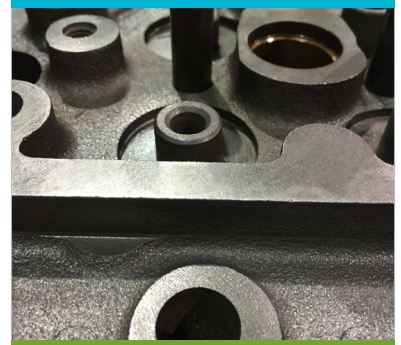
### ▷ FEATURED BENEFITS

- Short term nondiscernible film
- Will not leave heavy tacky residues typically associated with water based RP's
- Low foaming for both spray and dip applications
- Passes 10 freeze thaw cycles
- Nitrite free

### ▷ APPROVALS

- Ford TOX 174072 Certified
- GM C-28446
- Not compliant for California SCAQMD Rule 1144

### APPLICATION



#### COMPATIBLE METALS

Cast Iron  
Carbon Steel  
Tool Steel  
Stainless Steel

#### TYPICAL USES

Fuel Tanks  
Engines  
Hydraulic Tanks & Cylinders  
Gear Housings  
Steel Drums

#### APPLICATION METHOD

Immersion Tank  
Spray  
Flow-coat

#### OPERATING TEMPERATURE

Ambient to 150°F (66°C)

#### DILUTION RANGE

2 – 10% v/v

#### RUST PROTECTION

Indoor up to 16 months





## TYPICAL PROPERTIES

|                                 |                      |
|---------------------------------|----------------------|
| Fluid Type                      | Water based          |
| Appearance                      | Viscous amber liquid |
| Odor                            | Mild chemical        |
| Specific Gravity, 60°F (15.6°C) | 1.03                 |
| Weight, 60°F (15.6°C)           | 8.58 lbs/gal.        |
| pH (2% dilution)                | 8.5                  |
| Freeze Point                    | 32°F (0°C)           |
| VOC, ASTM 1868                  | 116.0 grams/liter    |

## PRODUCT APPLICATION / USAGE

RPA 500 can be applied to ferrous parts by immersion, spray, or flow-coat systems. Initially a 5% concentration of RPA 500 should be added to the mixed coolant tank. Then adjust the concentration to provide the desired level of protection. RPA 500 can also be used as a standalone corrosion inhibitor. A concentration of 10-15% will provide indoor storage protection for 6-12 months. It is desirable to dry the parts as quickly as possible after treating with RPA 500 to increase the length of corrosion protection. This can be achieved from the blow off after applying in the last stage of a conventional washer.

## MIXING DATA

Concentration control is easily maintained with a hand held refractometer or Chemtool titration kit.

| Concentration                          | 10%  | 6%   | 5%   | 4%   | 3%   | 2%  |
|--|------|------|------|------|------|-----|
| Titration Test Kit (# drops 0.5 N HCl) | 22   | 13   | 11   | 9    | 7    | 5   |
| Refractometer Reading                  | 3.75 | 2.25 | 1.75 | 1.50 | 1.00 | .75 |

## PRODUCT CODE

5200300000

## HEALTH AND SAFETY

For health and safety guidance, please refer to the Chemtool SDS (Safety Data Sheets).