

# RPAL 600

SYNTHETIC (AQUEOUS BASED) CORROSION INHIBITOR/  
CORROSION PREVENTATIVES FOR ALL METALS

## ▶ PRODUCT DESCRIPTION

**RPAL 600** is a synthetic, water dilutable corrosion inhibitor based upon an enhanced blend of select corrosion inhibitor- surfactant chemistries. RPAL 600 is recommended for applications which require short term (1-3 months) to long term (6-9 months) indoor protection of cast iron, steel, aluminum, copper and brass alloys. RPAL 600 contains no diethanolamine or nitrites.

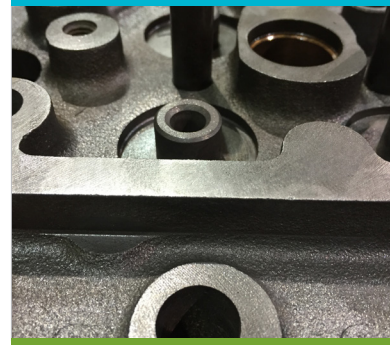
RPAL 600 exhibits superior wetting and coverage properties on all metallic alloys. This outstanding film coverage is critical for good corrosion protection, especially on complex surfaces and geometries. It is low foaming and is an effective rust inhibitor at low concentrations for immersion application systems. RPAL 600 is completely soluble in water and may be used as either an in-process rust inhibitor or for long term finished storage. Due to the products solubility, you can tailor the products concentration to meet your protection requirements.

RPAL 600 forms a near imperceptible film on machine parts for excellent corrosion protection without forming a sticky residue. It is also compatible with a variety of process water chemistries. It is an ideal choice for manufacturers and facilities processing a variety of mixed metals. RPAL 600 also exhibits mild vapor phase properties.

## ▶ FEATURED BENEFITS

- Outstanding in-process corrosion protection on all metallic substrates
- Provides good corrosion protection for all machine surfaces
- Superior wetting and coverage properties
- Excellent pH control and reserve alkalinity
- Outstanding hard water stability
- Excellent corrosion protection on aluminum castings

## APPLICATION



### COMPATIBLE METALS

Cast Iron  
Carbon Steel  
Tool Steel  
Stainless Steel  
Copper  
Brass Alloys

### APPLICATION METHOD

Immersion Tank  
Spray  
Flow-coat

### OPERATING TEMPERATURE

Ambient – 150°F (66°C)

### DILUTION RANGE

2 – 10% v/v

### FOAMING CHARACTERISTICS

Low

### RUST PROTECTION

Indoors up to 9 months





## TYPICAL PROPERTIES

|                                 |                      |
|---------------------------------|----------------------|
| Fluid Type                      | Water based          |
| Appearance                      | Viscous amber liquid |
| Odor                            | Mild chemical        |
| Specific Gravity, 60°F (15.6°C) | 1.04                 |
| Weight, lb/gal., 60°F (15.6°C)  | 8.69                 |
| pH (concentrate)                | 9.5                  |
| pH (10% dilution)               | 9.1                  |

## PRODUCT APPLICATION / USAGE

**RPAL 600** can be applied to non-ferrous and ferrous parts by immersion, spray, or flow-coat systems. Initially a 10% concentration of RPAL 600 should be added to the mixed coolant tank. Then adjust the concentration to provide the desired level of protection.

RPAL 600 can also be used as a stand alone corrosion inhibitor. Usually a concentration of 10-15% will provide indoor storage protection for three to nine months. It is desirable to dry the parts as quickly as possible after treating with RPAL 600, 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 | 0.75 |

## PRODUCT CODE

520180000

## HEALTH AND SAFETY

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