



## Product Bulletin

Better Chemistry. **Better Business.**

**Metal Guard® 914**

**Product Code: 2509015**  
**Revised Date: 03/22/2010**

### **Metal Guard® 914**

#### **DESCRIPTION**

**Metal Guard® 914** is a water-based wax emulsion rust preventative offering outstanding lubricity, adhesion, and durability on blackened, phosphated, and bare metal surfaces. It can be applied by dipping, spraying, tumbling, or brushing on. **Metal Guard® 914** is normally used as received but may be diluted with water, in special applications, up to 50% by volume. Since **Metal Guard® 914** is a water/wax emulsion parts can be processed through it without pre-drying. Some care should be exercised, however, to prevent too great a carry over of water which would, in time, dilute the wax emulsion resulting in a thinner deposit with lower protective quality. **Metal Guard® 914** coating will air-dry in a relatively short time. The drying period can be shortened by force drying with warm air or in heated spin dryers. If it becomes necessary to reprocess the parts, the wax coating may be removed in a hot alkaline cleaner or vapor degreaser. **Metal Guard® 914** wax emulsion can be contained in plain or lined steel tanks, stainless steel, polypropylene, PVC or supported polyethylene tanks.

#### **FEATURES AND BENEFITS**

- Outstanding lubricity, adhesion, and durability
- Water soluble
- Excellent rust protection
- Thin protective film
- Easily removed with alkaline cleaner

#### **TYPICAL APPLICATIONS**

- Final coat after black oxide
- Final coat after zinc or manganese phosphate
- Final coat on bare steel



# Product Bulletin

Better Chemistry. **Better Business.**

**Metal Guard® 914**

**Product Code: 2509015**  
**Revised Date: 03/22/2010**

## TYPICAL PROPERTIES

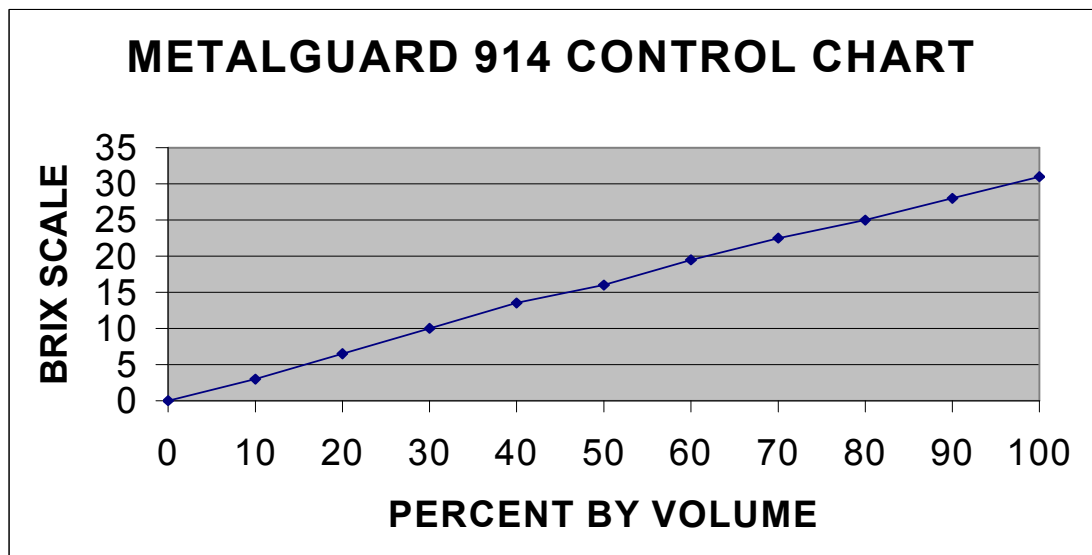
Approximate Coverage ..... 1,000 – 2,000 sq. ft./gallon  
Approximate Film Thickness (Dip)..... Less than 0.50 mil  
Flash Point.....None

## PHYSICAL DATA

Specific gravity.....Approximately 1.0 @ 70F.  
Vapor pressure ..... Same as water  
Percentage of volatility by volume .....None  
Vapor density (Air = 1)..... Same as water  
Evaporation rate (ether =1).....Less than 1  
Solubility in water ..... 100%  
Appearance and odor ..... Opaque tan emulsion, mild odor  
pH .....8.0 – 9.0

## CONTROL PROCEDURE

Using a hand held Brix Scale Refractometer, simply compare the reading with the control chart below and make adjustments as necessary with fresh **Metal Guard® 914**. Small additions of **Metal Guard® 914** should be made to the working bath to replenish volume lost due to the processing of work.





## Product Bulletin

Better Chemistry. **Better Business.**

**Metal Guard® 914**

**Product Code: 2509015**  
**Revised Date: 03/22/2010**

**Metal Guard® 914** has a pH range – 8.0 – 9.0. If required, the pH should be maintained with small periodic additions of ammonium hydroxide. Great care should be taken in adjusting the pH.

### **WASTE DISPOSAL**

Disposal of spent **Metal Guard® 914** should be in accordance to all applicable federal, state and local environmental ordinances.

### **WARRANTY**

THE QUALITY OF THIS PRODUCT IS GUARANTEED ON SHIPMENT FROM OUR PLANT. IF THE USE RECOMMENDATIONS ARE FOLLOWED, DESIRED RESULTS WILL BE OBTAINED. SINCE THE USE OF OUR PRODUCTS IS BEYOND OUR CONTROL, NO GUARANTEE EXPRESSED OR IMPLIED IS MADE AS TO THE EFFECTS OF SUCH USE, OR THE RESULTS TO BE OBTAINED.