Metal Guard® 600

Metal Guard 600 is a mildly alkaline, acrylic, water-based rust preventive, which produces a hard-dry, clear-glossy film. Since it is a water-based resin solution, processed parts may be wet when immersed. The parts should be agitated gently and allowed enough time in the solution to assure a full uniform film.

Metal Guard 600 will air dry in ten minutes but drying can be accelerated with the addition of heated air or by centrifugation. If the work is processed in baskets, it should be centrifuged for faster drying to prevent parts from sticking together.

Metal Guard 600 is generally applied by immersion at full strength but may be diluted up to 50% by volume with water. Dilution provides a thinner film with lowered corrosion and abrasion-resistance along with a less glossy appearance. It should be realized that water carried into rust preventative over time will result in a gradual dilution, which will create a thinner film.

Features & Benefits

Non-flammable	Improved Safety
Fast drying	Shorter processing time
Abrasion resistance	Improved final finish
Easily removed in an alkaline cleaner	Easy to repair errors

Physical Data

Specific gravity (70°F)	1.02 – 1.03
Vapor pressure	Same as water
Percentage of volatility by volume	> 1
Vapor density (air=1)	Same as water
Evaporation rate (ether=1)	Same as water
Solubility in water	100%
Appearance and odor	Clear non viscous liquid
pH	8.5 – 9.5

Approximate coverage	2900 ft^2/Gal
Approximate film thickness (by immersion)	0.09 mil
Approximate pH	9.9
Flash point	None
Percentage solids (concentration)	16.5%

The above characteristics change with dilutions.

The pH of the working solution should be maintained at or slightly above 9.5 by periodic additions of ammonium hydroxide solution.

Caution

Protect eyes from solution. In event of contact, flush eyes thoroughly with water and obtain medical help.

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For more information on this process,
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