



Metal Guard[®] 511

Metal Guard 511 is the result of the latest advances in thin film rust preventive technology. It is a solvent-based, polar water-displacing rust preventive which can be applied by dipping, spraying, or brushing and is designed to be the final finish on an engineered black oxide coating where 80 to 200 hours of salt spray resistance is desired yet dimensional change cannot be tolerated.

Metal Guard 511 meets Mil-C-16173D Grade 3 Specifications for water displacement and meets Mil Spec MIL-C-23411 and MIL-C-81309 for corrosion testing.

Metal Guard 511 is also used for protection against rust and corrosion on automobile parts and accessories, sewing machines, firearms, fasteners of all types, small gasoline engines, machine tools, dies, jigs, fixtures, and metal stampings.

Features & Benefits

Displaces rinse water to the bottom of the tank	Easily drawn off for continued use
Rapid water displacement	Improved corrosion protection
Used at room temperature	Improved safety
Thin protective “dry-to-touch” film	Improved appearance

Physical Data

Film thickness	0.21 mils
Coverage	Approx. 2,400 ft ² /Gal
Flash point	145°F (T.C.C.)
Water displacement test	Meets Mil Spec MIL-C-16173D, Grade 3
Corrosion test	Meets Mil Spec MIL-C-23411 and MIL-C-81309
Boiling point	355°F
Specific gravity	0.80



Vapor pressure	0.5 mm Hg
Percentage of volatility by volume	> 80% by weight
Vapor density (air=1)	5.4
Evaporation rate (butyl acetate = 1)	< 0.1
Solubility in water	Not soluble
Appearance and odor	Clear/amber, non-viscous solution, solvent smell

Typical Applications

- Final rust preventative after Black Magic coatings, even while still wet from the final rinse.
- Final rust preventative after Hubbard Hall's Mi-Phos zinc phosphate or manganese phosphate coatings.
- Final rust preventative after machining or cleaning operations.

Caution

Harmful or fatal if swallowed. Contains petroleum distillates. Use with adequate ventilation. Avoid prolonged or repeated contact with skin. If swallowed, do not induce vomiting. Call a physician immediately.

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For more information on this process,
 please call us at 203.756.5521 or email: techservice@hubbardhall.com

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