

# RUST VETO 4214-HF

**Water Displacing with Rapid Separation Displaces any Free Water Extremely Fast; Resists Alkaline, Acid, Solvent Emulsion Cleaner Carry-Over**

## DESCRIPTION

Rust Veto 4214-HF is a rust preventive that is exceptionally stable in wet conditions, particularly where there is alkaline, acid or solvent emulsion rinse water left on parts. It offers prolonged effectiveness where rinsing is not always thorough. Rust Veto 4214-HF releases displaced water within minutes and, on evaporation, leaves a very thin, transparent protective film. It provides indoor protection for as long as 12 months, particularly if parts are packaged.

## DATA (TYPICAL VALUES)

Type of Film	Thin oily, transparent
Flash Point, typical, PMCC	155°F (68.33°C)
Recommended Uses	Fast displacement and complete separation of water - after machining, cleaning, rinsing, wet tumbling. Inter-plant protection of packaged items.
Film Thickness	.1 mil
Coverage	1900 ft. <sup>2</sup> /gal
Application Method	Dip, spray or brush
Dry to Set Time	2 - 4 hours
Type of Protection	High humidity and fingerprint suppression
% Non-Volatile	12%
Metal Compatibility	All metals
Protection Period: Indoor	12 months
Protection Period: Outdoor	Not recommended
Fingerprint Suppression	Passes the criteria established by Specification MIL-C-15074
Water Displacement Method	Passes Specification MIL-C-16173
Humidity @120°F Polished Panels	30 days minimum
Water Separation	Passes

Date | version  
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## FEATURES

- Easy to apply - displaces and separates water fast.
- Exceptional stability - even in acid or alkaline conditions.
- Flash Point - 155°F typical.
- Excellent humidity protection.
- Easily removed.
- Barium-free.
- Thin film protects your parts without excessive carry-off which reduces usage and cost.
- Low-odor nature of the products optimizes worker acceptance.
- Displaces water or process fluids from wet parts to rapidly begin the corrosion inhibition process.
- Separates any displaced water from itself to optimize both corrosion inhibition and bath life.
- The high flash point reduces the potential for flammability and may reduce fire insurance premiums.
- Rapid drying permits handling of parts shortly after application which expedites process flow and packaging.

## RECOMMENDED USES

Rust Veto 4214-HF is particularly suited for application following electroplating and surface conversion processes, such as Houghton-Black. For example, if parts are coated, quickly rinsed and then put into a rust preventive bath, the rinse water may contain acid or alkaline carry-over. This carry-over will contaminate many rust preventives; Rust Veto resists contamination. Thus, where complete rinsing is not feasible, Rust Veto is an ideal choice.

Rust Veto 4214-HF is also excellent to use after wet tumbling.

## HEALTH AND SAFETY

Refer to MSDS for proper handling and disposal. Please note that the MSDS includes handling, health and disposal information which should be passed on to your employees, and to anyone else who comes in contact with our product. Additional advice can also be obtained from your local Houghton representative.

NOTE: Read and understand all precautions on container labels before using this product.



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Water Displacing with Rapid Separation Displaces any Free Water Extremely Fast; Resists Alkaline, Acid, Solvent Emulsion Cleaner Carry-Over

## HOW TO USE

Apply **Rust Veto 4214-HF** by spray, dip or brush between 70-95°F (21-35°C). Consider the usual precautions for handling petroleum solvents in venting, prolonged breathing of vapors or skin contact. The higher flash point of **Rust Veto 4214-HF** offers a safety factor over most products, but ordinary protective measures against petroleum solvent fires should be taken.

**Rust Veto 4214-HF** can be removed by washing with petroleum solvent or with Houghton's Cerfa-Kleen HST, Cerfa-Kleen HPW, or Cerfa-Kleen 5380.

## FEATURES

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## TYPICAL PERFORMANCE

- Square and round tubing, stacked between the forming and cut-off operations and assembly, rusted because the different shapes led to uneven drying of residual coolant and water. Heavy film rust preventives gave the required protection for six months but required another cleaning operation before assembly. A spray of Rust Veto applied before cut-off now displaces the coolant/water mix before the parts are stacked. For further long-term protection, particularly in summer, an extra Rust Veto spray is applied just as the tubes are stacked and sent to storage.
- Circulate saw blades require protection against corrosion during in-plant processing. The manufacturer needed a thin film, high flash point product because the blades are sprayed as they move along a conveyor from the grinders. Good drainage of the liquid on the blades was another requirement in order to reduce consumption. If it were also a solvent, the rust preventive would give desired protection and help remove any remaining grinding swarf. Among dozens of products from both specialty and major oil companies, only Rust Veto met all of the saw blade manufacturer's requirements.
- Bearings coming from the grinder with coolant still on them receive a coating of Rust Veto for rust protection and to prevent water staining. The Houghton product replaces a light oil rust preventive, which created messy working conditions. The work station is now cleaner, and far less rust preventive is needed to protect the precision bearings.

### Note:

[South Coast Air Quality Management District \(SCAQMD, Rule 1144\):](#)

**THIS PRODUCT CANNOT BE USED IN THE SCAQMD**

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