

CommGuard™ 135 Rust Inhibitor



WHAT IT DOES:

CommGuard™ 135 Rust Inhibitor is a water based, semi-dry, semi-synthetic film rust inhibitor for protection of both ferrous and non-ferrous metals. **CommGuard™ 135 Rust Inhibitor** is ideal for the protection of tubing and bar stock, as well a precision parts. The **CommGuard™** series offers the broadest range of performance features in a multi product family as well as providing maximum health, safety and environmental benefits.

WHERE TO USE IT:

CommGuard™ 135 is compounded for use in tough environments and is most effective when used under the following conditions:

PROPER MIXING AND CARE OF COOLANTS

- Always add concentrate to water with a small amount of agitation
- Protect product from freezing
- If product has frozen, allow it to thaw naturally and completely to room temperature. The product should be checked for consistency. If necessary, product can be re-mixed with slight agitation
- Store coolant containers indoors. If coolant drums must be stored outdoors, place them on their sides to minimize the potential for water to enter drums
- Never expose coolants to temperature extremes
- Do not add anything to this product unless recommended by Commonwealth Oil
- **CommGuard™ 135** can be diluted to 10% with most soft tap water for 3 - 6 months indoor rust protection.

PERFORMANCE BENEFITS:

CommGuard™ 135 Rust Preventative has been specifically formulated to provide the following benefits:

- User friendly.
- No flash point. Non-combustible.
- Resists bacterial growth.
- Nitrite, chrome and phenol free.
- Extended tank life.
- Superior foam fighting characteristics
- Exceptional indoor rust protection for tube, pipe and bar stock.
- Not messy. Cleaner environment as compared to oil base rust inhibitors.



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TECHNICALLY SPEAKING:

Test	CommGuard™ 135
pH Concentrated	10.0
pH 5% Solution	9.5
Cast Iron Chip Test - ASTM#D-4627 (Modified)	Pass @ 3% and 5%
Refractive Index (RI) Factor	Multiply RI by 1.78 for Concentration %
RI for a 5% Solution	2.80
RI for a 10% Solution	5.60
Flash Point, COC	None
Density, lbs./US Gallon	8.35
Specific Gravity	1.0

These are typical figures and do not constitute a specification.

THE EFFECTS OF WATER QUALITY ON EMULSION STABILITY

To obtain the best performance from this or any water miscible metalworking fluid, begin with quality water. Water hardness in parts per million (PPM) of calcium and magnesium varies by region. To determine your plant's water hardness, telephone your regional Water Treatment Plant or send a 4 ounce sample to our laboratory, and we will determine the water hardness for you. Water hardness may also be reported in grains of hardness. To convert to parts per million, multiply by 17.5 (1 grain = 17.5 PPM). The best emulsion stability and wetting ability are obtained with reverse osmosis, distilled or de-ionized water or a blend of them. The ideal water hardness range is greater than 25 PPM but less than 125 PPM. Exceptionally hard water (above 200 PPM) can have a de-stabilizing effect on this coolant, and can often prematurely deplete rust inhibitor, metal passivating, and other performance additives. To ensure optimum performance of the coolant, mix according to the following minimum concentrations.

SUGGESTED MINIMUM MIXING CONCENTRATIONS FOR WATER HARDNESS			
	0 – 50 PPM	50 – 100 PPM	100 – 200 PPM
CommGuard™ 135	3% (33:1)	3.5% (28.1)	4% (25.1)

Handling & Safety Information

For information on the safe handling and use of this product, refer to the Material Safety Data Sheet obtainable from Commonwealth Oil Corporation.



Available in Pails, Drums and One-Way Bulk Containers