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Rust Inhibitor

4119 White Bear Parkway, St. Paul, MN 55110 USA Phone: (651) 429-1100, Fax: (651) 429-1122 Toll Free: (800) 4-CORTEC, E-mail: info@cortecvci.com cortecvci.com • corteclaboratories.com			
	Evaluation of MP-222		
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Project	#:14-006-1825		

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Background:		Customer is a global provider of world class deep drawn metal stampings in steel, aluminum, and other metals. Customer would like Cortec to compare the corrosion preventive properties of their current process fluids to similar Cortec products.
Sample Received:		Four steel stampings coated in Rust Veto 4240 MP-222 Rust Inhibitor (~5 ounces)
Method:	ASTM	I D-1735 Water Fog (100F, >95% relative humidity)
Materials:	Steel s MP-22 BioCo Metha	tampings 2 Rust Inhibitor rr (Batch #10623) nol
Procedure:	The fo 1) Thr 2) One clea Inhi inhi Veta 3) The air o 4) All insp 5) Afta drie	llowing procedure was used: ee of the four steel stampings were cleaned using methanol. of the cleaned parts was dipped in BioCorr, and another of the ned parts was dipped in a 3% solution (4oz/gal) of MP-222 Rust bitor. The other cleaned part will be tested without any rust bitor, and the unclean part will be tested 'as received' with the Rust o 4240 coated on it. parts that were coated with BioCorr and MP-222 were allowed to hy over night. parts were then placed in ASTM D-1735 water fog cabinet, and lected for corrosion on a daily basis. er 250 hours, all parts were removed from the water fog cabinet, air d, then photographed.
Results:	The fo	llowing results were found:

Sample	Time to Corrosion
Cleaned part, no inhibitor (control)	<15 hours
Cleaned part coated with 3% MP-222	<15 hours
Cleaned part coated with BioCorr	250 hours
As received, coated with Rust Veto 4240	40 hours

Interpretations: After 250 hours of ASTM D-1735 water fog testing, BioCorr provided the best corrosion protection.

Photos:

ASTM D-1735 Water Fog Testing After 250 hours



BioCorr

Rust Veto 4240

3% MP-222

Control