

Collecting and Shooting the Military Surplus Rifle

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Kalinka Optics Warehouse

<http://www.kalinka.com>Article Written by: [R. Ted Jeo](#)

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Test Results Part Three

Product Test: Cabela's 100% Natural Citrus Black Powder Solvent



Product Name:	Cabela's 100% Natural Citrus Black Powder Solvent
Website:	http://www.cabelas.com
Label Information:	
Natural citrus products are combined to produce a product that quickly and easily dissolves percussion cap and black-powder residue and fouling.	
Wife Rating:	2
Odor/Characteristics:	
No odor, or very slightly lemony scented.	

Cabela's 100% Natural Citrus Black Powder Solvent

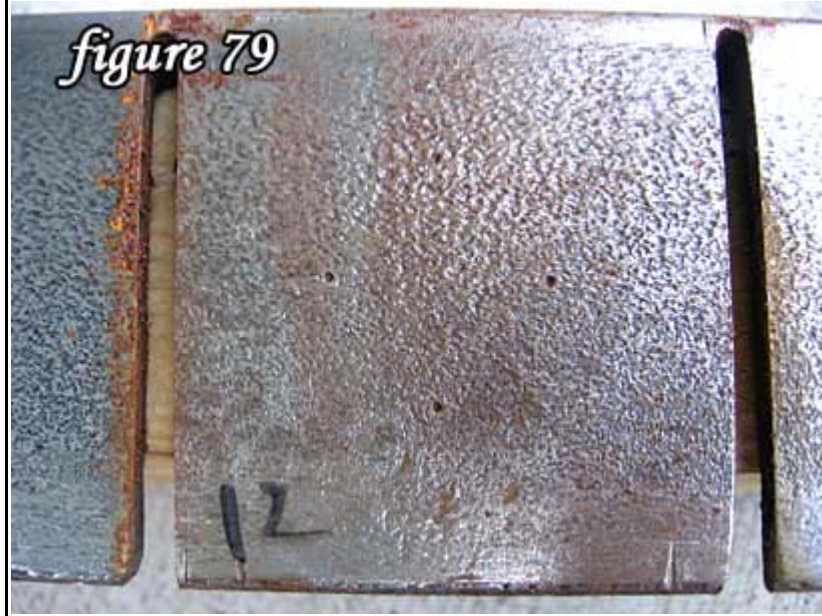
Rep One Salt Treated (10 Passes of Solvent)



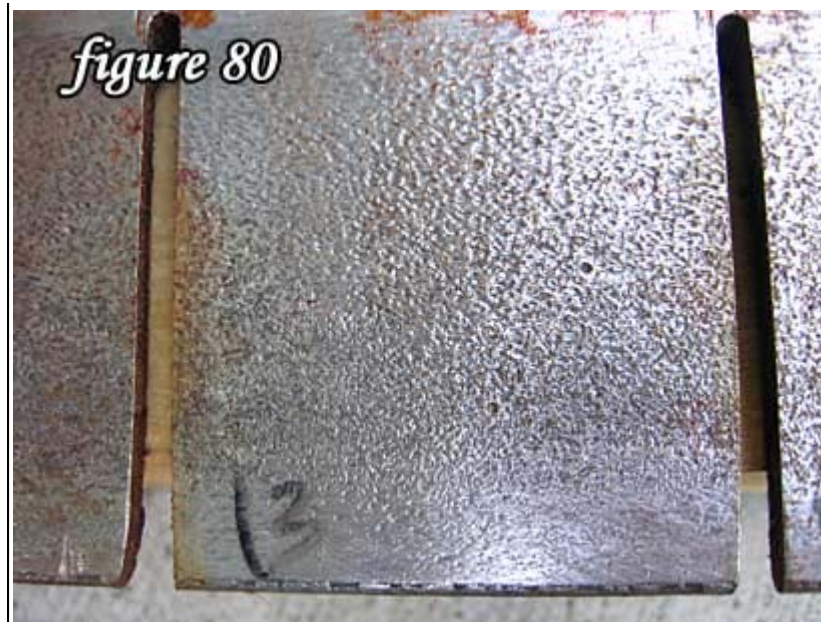
Rep One No Salt (Control) (10 Passes of Solvent)



Rep Two Salt Treated (15 Passes of Solvent)



Rep Two No Salt (Control) (15 Passes of Solvent)



The black powder solvent did a fine job of salt removal, however without some other protectorant applied after cleaning, some surface rust did form. This held true for most all water based cleaners/degreasers.

Product Test: RB-17 Gun Cleaner



Product Name:	RB-17 Gun Cleaner
Website:	http://www.rb-17.com/
Label Information:	
A non-toxic, biodegradable gel made of natural products that contains no acids, phosphates or petroleum by-products. Completely dissolves (deep cleans) rust from all metal parts in seconds by removing the oxygen molecule from the process of oxidation.	
Wife Rating:	2
Odor/Characteristics:	
Lemony scented. Thick yellow gel.	

RB-17 Gun Cleaner

Rep One Salt Treated (10 Passes of Solvent)

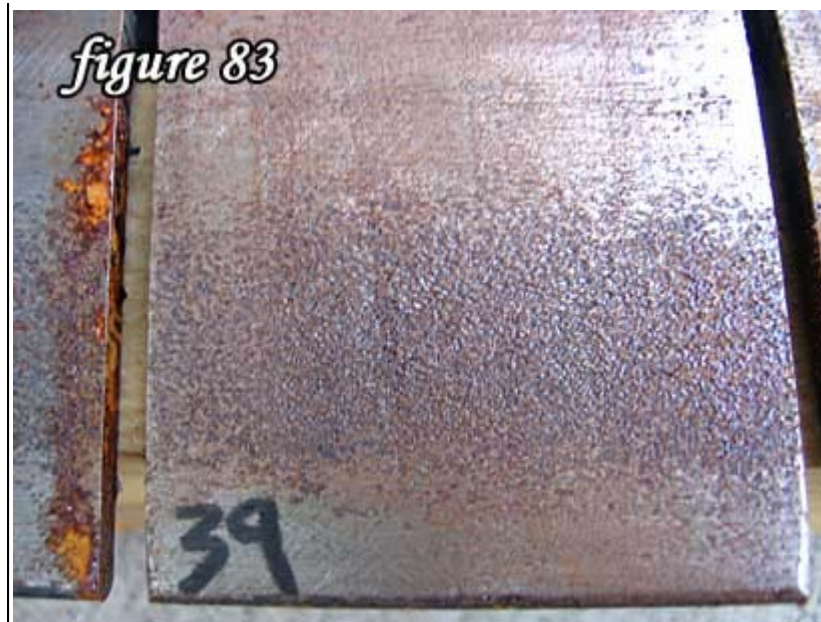


Rep One No Salt (Control) (10 Passes of Solvent)

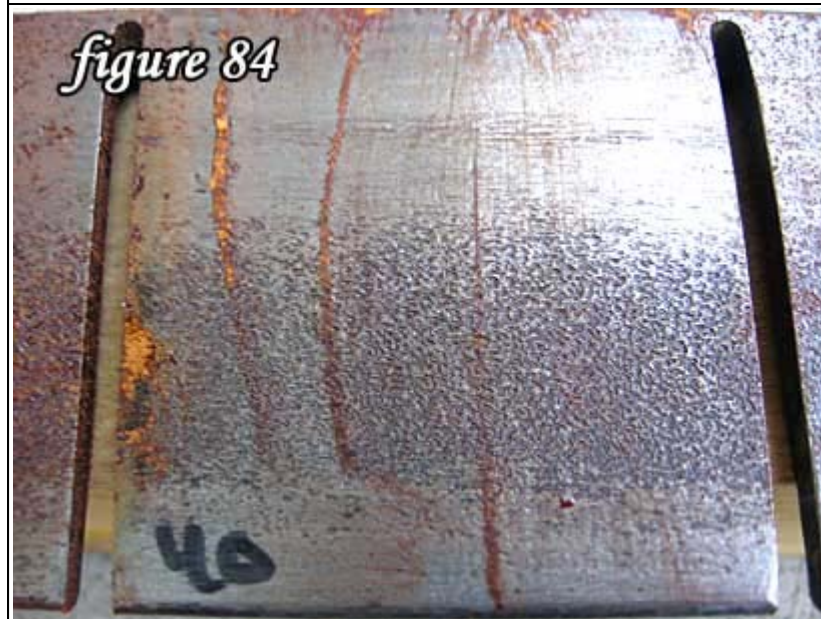


Rep Two Salt Treated (15 Passes of Solvent)





Rep Two No Salt (Control) (15 Passes of Solvent)



Once again, the water based cleaners did the better job of salt removal, but left the metal exposed to minor surface rust formation and requires an additional protectorant to be applied after use. The streaks are left over from when I did a couple of drying swipes with a paper towel.

Product Test: Brownells Ed's Red

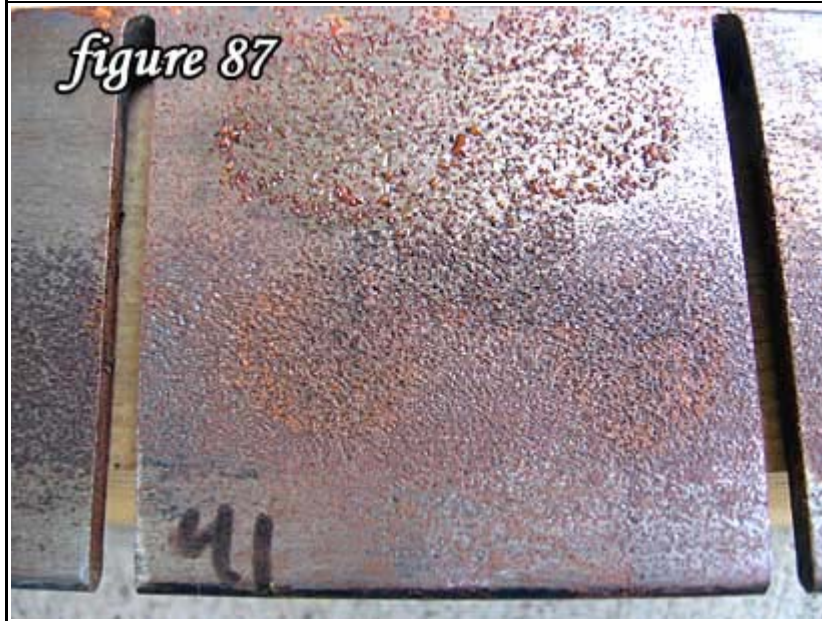


Product Name:	Brownells Ed's Red
Website:	http://www.brownells.com/
Label Information:	
Brownell has pre-mixed the solution that duplicates Ed Harris' widely published recipe for home-mixed bore cleaner. Safe, effective formula works similar to the standard, military-issue bore cleaner, Mil-C-372B. Wipes out plastic wad fouling, heavy leading, and caked-on carbon fouling. Cuts abrasive primer residue, too. Helps reduce copper fouling when used regularly.	
Wife Rating:	0
Odor/Characteristics:	
Odor/characteristics: Very strong kerosene smell. Pink clear liquid. This commercial version of the solvent was used in testing to be consistent with the "recipe" of the original solvent.	





Rep Two Salt Treated (15 Passes of Solvent)



Rep Two No Salt (Control) (15 Passes of Solvent)



Ed's Red appeared to have removed some salt, I suspect it was from the physical action of wiping with the patch rather than any chemical removal of the salt.

Product Test: Slip 2000 Carbon Killer



Product Name:	Slip 2000 Carbon Killer
Website:	http://www.slip2000.com/
Label Information:	Non-hazardous, non-flammable, biodegradable, orange scented. Removes carbon quickly and easily from cylinder faces, bolt actions, gas piston cylinders or other hand to clean areas. After soaking, carbon, lead, copper and burnt powder will wipe clean with a brush. Can also be used on patches for barrel and bore cleaning.
Wife Rating:	2
Odor/Characteristics:	Greenish opaque liquid, pleasant orange scent. Comes in a "dip jar" where parts are tossed in and allowed to soak.

Slip 2000 Carbon Killer

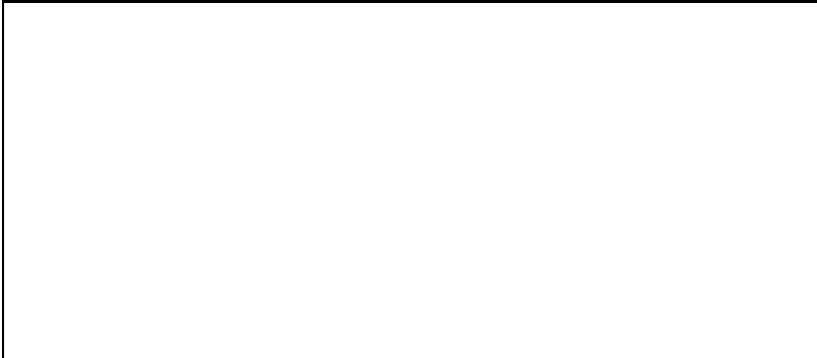
Rep One Salt Treated (10 Passes of Solvent)



Rep One No Salt (Control) (10 Passes of Solvent)



Rep Two Salt Treated (15 Passes of Solvent)





Rep Two No Salt (Control) (15 Passes of Solvent)



This bio degradable cleaner shows some good promise. As before, the metal is left bare and exposed and need some sort of protectorant applied. Again, the streaking came from the left overs after I wiped it a few times lightly with a paper towel. Slip 2000 has gotten rave reviews by the semi and full auto crowds on cleaning the build up crud off of bolts and gas systems. A further review of this solvent may be in order.

Product Test: Barnes CR-10 Rifle & Handgun bore cleaning solvent



Product Name:	Barnes CR-10 Rifle & Handgun bore cleaning solvent
Website:	http://www.barnesbullets.com/prodcr-10.php
Label Information:	
Effectively removes copper and powder fouling. This aggressive bore cleaner quickly loosens and lifts heavy copper deposits left by jacketed bullets as they pass through the bore. Leaves rifling clean for better accuracy and longer barrel life. CR-10 bore cleaner is non-corrosive and won't harm barrels.	
Wife Rating:	0
Odor/Characteristics:	
An eye watering ammonia liquid solvent, use only in well ventilated area. Because it was labeled as a cleaner and not just a copper remover, it was included in this salt test.	

Barnes CR-10 Rifle & Handgun bore cleaning solvent

Rep One Salt Treated (10 Passes of Solvent)



Rep One No Salt (Control) (10 Passes of Solvent)



Rep Two Salt Treated (15 Passes of Solvent)



Rep Two No Salt (Control) (15 Passes of Solvent)



I suspected that this solvent would do a reasonably well job of salt removal by chemical action simply because a good portion of it appears to be ammonia mixed in water. I do think it is sold more on its copper removal strength than as a bore cleaner, it sure does smell that way.

Product Test: Kleen-Bore No.10 Gun Cleaning Solvent

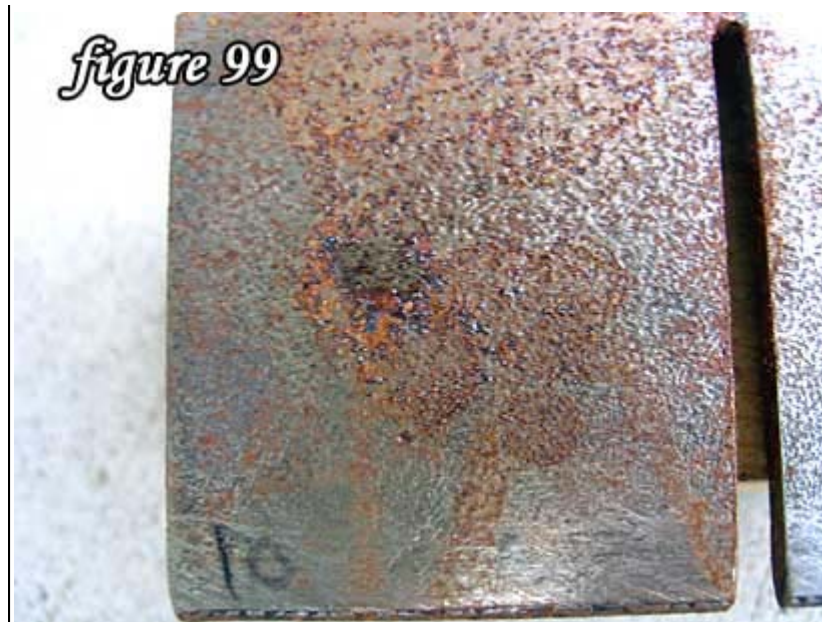


Product Name:	Kleen-Bore No.10 Gun Cleaning Solvent
Website:	http://secure.armorholdings.com/kleen-bore/gunchemicals.html
Label Information:	
Tried and true, No. 10 is a fast, efficient solvent that quickly penetrates and lifts lead, powder residue, and metal fouling for quick, easy cleaning. Prevents rust.	
Wife Rating:	0 to 0.5

Odor/Characteristics:

Fuel smell, like diesel or kerosene. Yellow colored liquid.

Kleen-Bore No.10 Gun Cleaning Solvent**Rep One Salt Treated (10 Passes of Solvent)****Rep One No Salt (Control) (10 Passes of Solvent)****Rep Two Salt Treated (15 Passes of Solvent)**



Rep Two No Salt (Control) (15 Passes of Solvent)



The product did seem to remove some salt, however, again, I suspect it was by the physical action of swiping the patch over the metal.

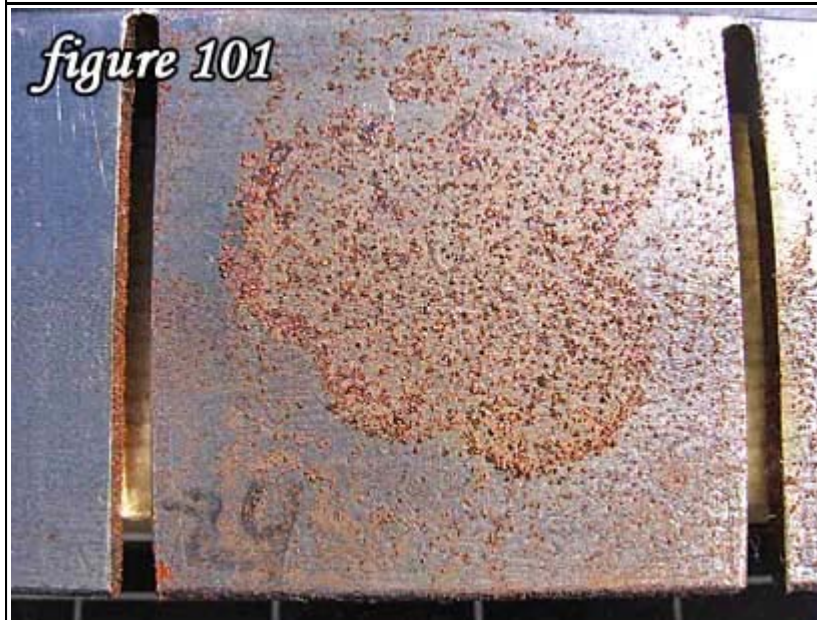
Product Test: RIG #44 Super Bore Cleaner



Product Name:	RIG #44 Super Bore Cleaner
Website:	http://www.silencio.com/index.html
Label Information:	
Cleans quickly without scrubbing, scraping or digging. Easily removes lead and copper fouling, powder residue and carbon deposits. Leaves a protective lubricating film.	
Wife Rating:	1
Odor/Characteristics:	
A very soapy (somewhat nauseating) smell. Clear liquid.	

RIG #44 Super Bore Cleaner

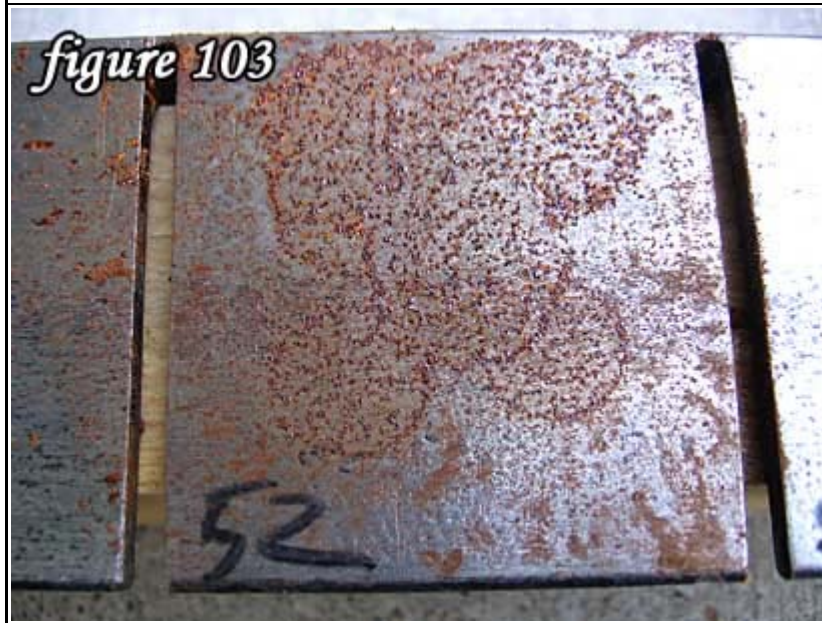
Rep One Salt Treated (10 Passes of Solvent)



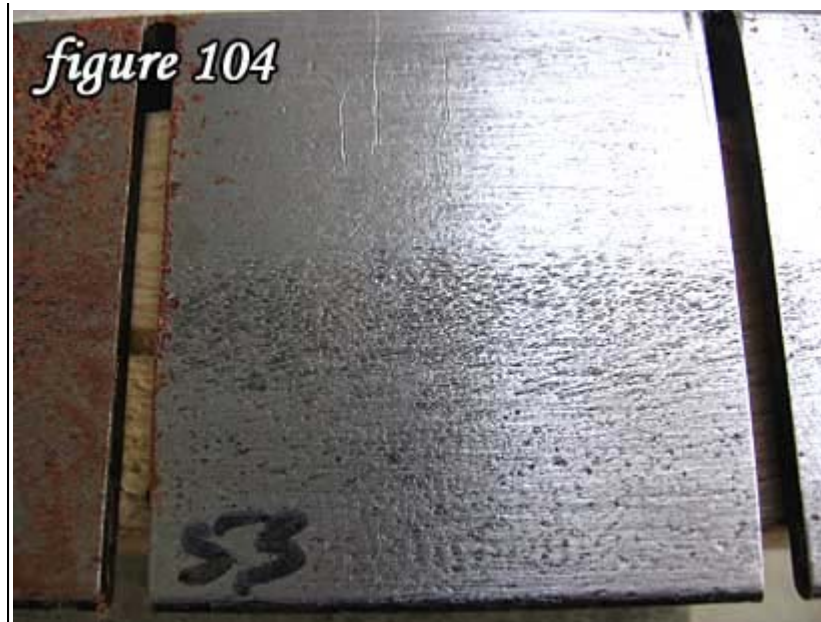
Rep One No Salt (Control) (10 Passes of Solvent)



Rep Two Salt Treated (15 Passes of Solvent)



Rep Two No Salt (Control) (15 Passes of Solvent)



I had thought that this solvent would have done better because of very soapy smell that it had. Apparently my sense of smell failed me and it isn't soap that I smelled, but some other petroleum based solvent.

Product Test: Blue Wonder Gun Cleaner



Product Name:	Blue Wonder Gun Cleaner
Website:	http://www.bluewonder.us
Label Information:	Concentrated gel that adheres to surface. Will not spill like liquid cleaners. Removes copper and lead deposits from bore. Removes powder residue and black powder corrosion. Removes cosmoline and oil from soaked stocks. Removes rust from bluing. Leaves chemically bare metal. Safe, biodegradable, non toxic. No noxious fumes or flammable liquids.
Wife Rating:	1.5 to 2

Odor/Characteristics:

A slightly strong scent of like Pinesol. Not totally unpleasant. Comes in a squeeze tube, yellow thick gel that clings.

Blue Wonder Gun Cleaner**Rep One Salt Treated (10 Passes of Solvent)****Rep One No Salt (Control) (10 Passes of Solvent)****Rep Two Salt Treated (15 Passes of Solvent)**



Rep Two No Salt (Control) (15 Passes of Solvent)



Blue wonder did a fine job of salt removal, as was expected. Not only was it able to dissolve the salt, it removed it completely. As with other bio degradable water soluble solvents, it left behind bare metal which did form the fine surface rust.

Home Cleaners

I also ran a couple of home type products that people talk about using to removal and clean salts from corrosive ammo shooting.

De-ionized Water

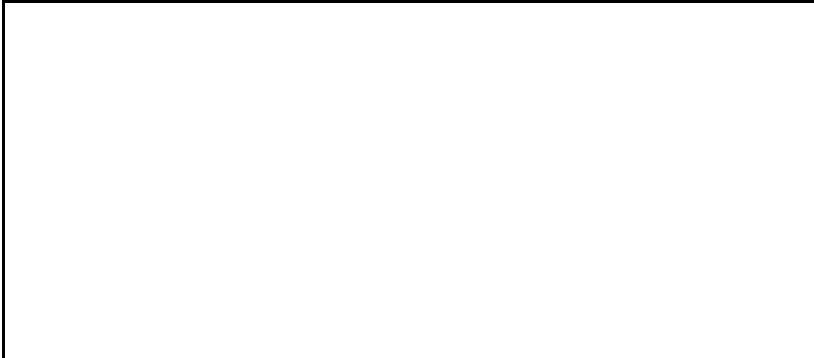
Rep One Salt Treated (10 Passes of Solvent)



Rep One No Salt (Control) (10 Passes of Solvent)



Rep Two Salt Treated (15 Passes of Solvent)





Rep Two No Salt (Control) (15 Passes of Solvent)



De-ionized water did remove the salt, but also allowed the wet/damp metal to form a surface rust. On the right, you can still see some corroded spots where the salt was, but none of the signature "wet" salt spots exist.

Dish Soap and Water

Rep One Salt Treated (10 Passes of Solvent)



Rep One No Salt (Control) (10 Passes of Solvent)



Rep Two Salt Treated (15 Passes of Solvent)



Rep Two No Salt (Control) (15 Passes of Solvent)



Next up is soap (dish liquid) and water. The addition of the soap surfactant made salt removal even better. Many of the newest bio-friendly solvents have a soap nature to them. The soap was mixed up in de-ionized water.

Windex

Rep One Salt Treated (10 Passes of Solvent)



Rep One No Salt (Control) (10 Passes of Solvent)



Rep Two Salt Treated (15 Passes of Solvent)



Rep Two No Salt (Control) (15 Passes of Solvent)



Windex, does contain ammonia, however it is mostly water and surfactants. The ammonia has nothing to do with the salt removal, it is the water in Windex that does the job.

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