



PANTHEON ENTERPRISES
Innovating Through Conscious Chemistry



**WEAPON MAINTENANCE
PRODUCT GUIDE**

PANTHEONCHEMICAL.COM

DEEP CLEANING & CONDITIONING

STEP 1-CLEAN

Exterior

- Always unload weapon prior to cleaning.
1. Spray Pantheon Premium Gun Cleaner on entire weapon surface. (See FAQs for exceptions)
 2. Let sit for 0 to 5 min. depending on fouling.
 3. Reapply PP Gun Cleaner and remove exterior carbon deposits with nylon bristle brush.
 4. Wipe clean with a dry cloth, use cotton swabs for hard-to-reach areas. Repeat process as needed.

Bore

1. Spray PP Gun Cleaner into the bore.
For small diameter bores, swab with a patch thoroughly soaked with PP Gun Cleaner to completely coat bore. (Bore can also be plugged and filled with cleaner.)
2. Let sit for 0 to 5 minutes depending on fouling.
3. Scrub entire bore 2 to 3 times with a metal bore brush.
4. Swab bore with a dry cloth patch. A jag or double patching is recommended for complete bore contact.
5. Repeat process until patches are white or light gray*.

Note: For Ultrasonic and/or Dip Applications see Specialized Cleaning Applications

Test before use: PP Gun Cleaner and PP Bore Gel are completely safe on factory finishes and have been approved by major gun manufacturers. However, they can instantly remove unprotected oil-based wood finishes, water-based paint/finishes and some types of "cold bluing".

** Light gray material does not have a significant impact on accuracy. It will be removed in subsequent cleanings until the patches consistently come out white.*

STEP 2 - LUBRICATE

PP Gun Cleaner and PP Bore Gel completely strip a weapon of oil and grease, requiring a complete re-oil after cleaning.

1. Apply several drops of PP Gun Oil CLPX to a patch and swab bore 2 to 3 times to evenly distribute.
2. Apply 1 to 2 drops of PP Gun Oil CLPX in/on any moving parts (i.e. bolts, triggers, firing pins, springs, guide rods, etc.).
3. Apply PP Gun Oil CLPX to beginning of each rail. Reassemble and cycle weapon 2 to 3 times to distribute.
4. Apply thin layer of PP Gun Oil CLPX to exterior weapon surfaces. (The low evaporation rate of PP Gun Oil CLPX will offer extended rust protection depending on environment.)
5. Reassemble weapon.

HIGH VELOCITY COPPER REMOVAL

For best results, use PP Gun Cleaner first to remove carbon which slows the copper etching process. Once the top layer of carbon is removed, use PP Copper Remover to dissolve welded copper from the bore. To remove the multiple layers of carbon and copper fouling, use both products as directed below.

1. Swab bore with an PP Copper Remover thoroughly soaked patch 2 to 3 times.
2. Let sit for 5 to 10 minutes.
3. Scrub bore 2 to 3 times with bore brush. Follow with a dry patch (a jag or double patching is recommended).
4. Clean with PP Gun Cleaner as directed in Deep Cleaning & Conditioning instructions.
5. Repeat both processes until patches are white or light gray*.

Note: For bore use only. Keep PP Copper Remover away from alloys or finishes containing copper (i.e. bronze brushes, some aluminum alloys, some types of bluing). **Do not mix PP Copper Remover with other chemicals.**

MILITARY STYLE FIELD MAINTENANCE

PP Gun Oil CLPX can be used as a military "CLP" to keep a weapon in optimal working condition between deep cleaning and conditioning with PP Gun Cleaner. Follow instructions for field maintenance and lubrication below.

STEP 1 - CLEAN

Exterior

1. Apply PP Gun Oil CLPX to surface of weapon as needed.
2. Brush to remove exterior carbon deposits with nylon bristle brush.
3. Wipe clean with a dry cloth, use cotton swabs for hard to reach areas. Repeat process as needed.

Bore

1. Apply PP Gun Oil CLPX to bore. For small diameter bores, swab bore with a patch thoroughly soaked with PP Gun Oil CLPX to completely coat bore.
2. Scrub 2 to 3 times with a metal bore brush.
3. Swab bore with a dry cloth patch. A jag or double patching is recommended for complete bore contact.
4. Repeat process until patches are white or light gray*.

STEP 2 - LUBRICATE

1. Apply 1 to 2 drops of PP Gun Oil CLPX in/on any moving parts (i.e. bolts, triggers, firing pins, springs, guide rods, etc.).

SHOTGUNS

PP Gun Cleaner removes lead and plastic shot cup fouling, which can become embedded with carbon. PP Gun Cleaner pulls the carbon out of the plastic causing it to curl. The carbon and plastic can then be removed with light brushing.

LEAD FOULING REMOVAL

Lead fouling is bonded to the bore by carbon. PP Gun Cleaner penetrates underneath the lead and dissolves the carbon allowing the lead to brush out. Spray PP Gun Cleaner (or swab PP Bore Gel) down the bore and wait 5 to 6 minutes. Take a dime or quarter size piece of stain-less steel pot scrubber, wrap it around your metal brush (this will not scratch the bore). Scrub bore with brush and pot scrubber 5 or 6 times. Repeat entire process until clean. To remove lead deposits in compensators, use toothpicks and cotton swabs. Subsequent lead removal will become easier with regular use.

COPPER FOULING REMOVAL

At bullet velocities under 3,000 fps, copper is bonded to the bore the same as lead and can be removed with PP Gun Cleaner. At bullet velocities greater than 3,000 fps, the copper can become welded to the bore and must be "etched" to remove. (See High Velocity Copper Removal.)

ULTRASONIC OR DIP APPLICATIONS

Breakdown weapon, remove grips, stocks and optics. Submerge parts in PP Gun Cleaner for approx. 15 min. Bristle brush and wipe clean. Repeat as necessary. Dry and re-oil thoroughly (a full immersion in PP Gun Oil CLPX is recommended to protect internal mechanisms and allow sufficient time to drain after immersion). Wipe down. Reassemble. To reuse PP Gun Cleaner, filter and keep in airtight container.

MACHINE GUNS

Fully automatic weapons are more difficult to maintain due to greater carbon buildup and higher lubrication requirements. PP Gun Cleaner cuts through carbon fouling for easy cleaning. Traditional oils and military style CLP's tend to "flash" or burn off. In some cases involving larger individual or crew served machine guns, operators pour standard issue CLP directly on the weapon while firing to keep it lubricated. Combat users report improved performance, smoother cycling and reduced heat exchange when using PP Gun Oil CLPX.

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BORE CONDITIONING

Continuous firing bonds carbon, lead and most copper fouling to the bore metal in layers (see illustration bottom left). No other cleaners can completely remove these stubborn layers of carbon and metal fouling. PP Gun Cleaner penetrates under old layers of carbon, lead and copper fouling removing them permanently. Once these layers are removed, subsequent cleaning time and effort can be reduced by up to 80% (depending on the degree of build up). The key is dwell time and agitation. The longer it dwells, the less agitation is required. With the surface devoid of carbon deposits, fouling does not adhere as easily and takes longer to build up. Cleaning new weapons enhances this bore conditioning.

FIRING PIN CHAMBERS

Do not allow PP Gun Cleaner or PP Bore Gel to seep into the firing pin chamber. If this occurs, place a drop or two of PP Gun Oil CLPX into the chamber. When submerging a weapon completely in PP Gun Cleaner, a full oil dip is recommended. (See Ultrasonic and Dip Tank Cleaning Applications.)

RUST PREVENTION

PP Gun Cleaner and PP Bore Gel completely strip a weapon of any oil or grease. Re-oil entire weapon after cleaning. (See PP Deep Cleaning & Conditioning Step 2 – Lubricate.)

FOR USE ON

PP Weapon Maintenance products are safe to use on all knives, handguns, rifles, shotguns, machine guns, grenade launchers, artillery pieces, cannons, muzzle loaders, corrosive priming deposits, stainless, blued and nickel finishes, titanium, aluminum, polycarbonate plastics (e.g. Smith & Wesson's SIGMA, Glock, Heckler & Koch frames), rubber, nylon and varnished/urethane woods.

FREQUENTLY ASKED QUESTIONS

If it doesn't smell, how can it work?

Pantheon uses a unique blend of chemical technologies containing corrosion inhibitors and surfactants with a non-toxic solvent base to provide superior cleaning without the intense smell. Even on a "clean" weapon, PP Gun Cleaner will remove additional carbon left behind in the bore by other gun cleaning products.

How often should my weapon be cleaned?

Most weapon manufacturers recommend cleaning every time it is fired. This helps to maintain weapon reliability and extend its service life. Weapons are designed to shoot clean. Make sure all weapons are unloaded before cleaning. Everyday "carry firearms" should be cleaned weekly.

Do I need to oil my weapon after I clean it?

Yes, PP Gun Cleaner will strip the weapon's surface of all oil and grease. Therefore, re-oiling with PP Gun Oil CLPX after cleaning is recommended.

What type of bore brush should I use?

The standard bronze bristle bore brush is more than adequate for general cleaning. Stainless steel is recommended for stubborn fouling removal. Nylon brushes are not effective on embedded fouling.

Will PP Gun Cleaner harm an unprotected oil finished stock?

No, PP Gun Cleaner will not damage the wood of the stock. However, it will remove the oil from unprotected wood (varnished wood or plastics do not apply). After cleaning, simply re-oil the stock.

Will PP Gun Cleaner remove cosmoline and other petroleum protectants?

Yes, PP Gun Cleaner will remove protectants. Wipe off excess protectant, then liberally spray or soak parts and stocks in PP Gun Cleaner and wipe clean.

Will PP Gun Cleaner harm night sights?

No, Pantheon products will not harm night sights. However, some dot sights are covered with water-based paint that may be removed.

Is PP safe on cold bluing, after-market or non-factory finishes?

Pantheon products are completely safe on high quality after-market or non-factory finishes. Pantheon Cleaners will not harm the metal, but may strip some weapons with less expensive cold bluing finishes.

After cleaning with PP Gun Cleaner, why does the bluing look whitish or faded?

When oil is stripped from a blued surface, the clean metal can look faded, whitish or even spotted. This is the actual appearance of the metal and not caused by the cleaner. Apply a thin coat of PP Gun Oil CLPX to restore the appearance of the bluing.

Is it safe for parts to soak in PP Gun Cleaner?

It is safe (although unnecessary) to soak metal parts in any Pantheon Product for weeks as long as the metal is completely covered with liquid. As with any soaking procedure, make sure that different types of metals are not in contact with each other.

How long or how many times can I filter the gun cleaner by straining it through a cloth and how should I store it?

You can re-use the gun cleaner several times if it is filtered through a 10 to 20 micron filter to remove the carbon and other fouling. Over time, carbon tends to lower the pH and reduce the cleaning efficiency in a tank. Depending on how often you clean and how well you filter the solution, it will probably last 6 months or more. Store it in an airtight container (Tupperware type will work) at room temperature and away from sunlight if possible.

I normally use corrosive ammunition. Is PP Gun Cleaner effective in removing the corrosive salts?

PP Gun Cleaner works very well on ammunition with corrosive primers and black powder. PP Gun Cleaner instantly neutralizes the effects of corrosive primer, black powder, ammonia and other corrosive salts.

To order Pantheon products or for more information

Visit: www.pantheonchemical.com

Call: 1.888.608.7888

Email: info@pantheonchemical.com

CARBON & COPPER BUILD UP



Surface and embedded carbon fouling act as the bond or glue for all types of fouling (lead, copper, etc.). See the High Velocity Copper Removal section for exceptions.

TRADITIONAL GUN CLEANERS

Traditional solvents remove surface carbon fouling, but have little to no effect on embedded carbon fouling.

Traditional copper and lead solvents etch the metal, but have little effect on embedded carbon fouling.



PANTHEON PREMIUM GUN CLEANER



PP Gun Cleaner is the only cleaner on the market that removes the embedded carbon fouling layer allowing the embedded metal fouling to easily brush out.

PANTHEON PREMIUM COPPER REMOVER



PP Copper Remover then dissolves or "etches" welded copper leaving a clean bore surface when used in conjunction with PP Gun Cleaner (see detailed cleaning section).

FACE TO FACE COMPARISON

Pictured is a cylinder face of a Smith & Wesson® .357 magnum revolver cleaned multiple times with several popular gun cleaning brands.



The remaining visual carbon "staining" is the same embedded carbon in the bore that acts as a bond for surface carbon and metal fouling.

This side was then cleaned with Pantheon Gun Cleaner.