

# BORDEN'S ACCURACY

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## **Cleaning Your Rifle**

A good rifle is kept performing well by proper cleaning and care. We have done a considerable amount of research and experimentation with bore solvents and cleaners. The research has included the use of a high quality bore scope to observe the effects of the different cleaning methods. The method described below is the one that we have found to work the best.

Based on recent experimentation I now have two different methods for you to choose from for cleaning your rifle. For method 1 we recommend the use of, Butch's Bore Shine, or Shooter's Choice MC#7 mixed with Kroil. For method #2 we recommend Bore Tech Cu4 copper eliminator and Bore Tech Carbon solvent. Quality phosphor bronze brushes, good patches, a bore guide and high quality rods are also required to ensure good result for method #1. For method #2 we recommend use of nylon brushes and the quality rods mentioned for method #1. We also recommend the jags produced by Bore Tech that will not be effected by the Copper solvent. We personally use Lucas or the TK Nolan bore guides and Bore Tech, IVY or Dewey cleaning rods. I prefer the Stainless Steel jags or the new Bore Tech jags to keep from having the copper solvent eat the jag. I highly recommend the IVY rods made by Denny Phillips DebMarie Phillips, Ivy Rods, Edgerton, WI 53534, 608.931.0137.

The Shooter's Choice MC# 7 is mixed two parts to one with Kroil. The Butch's Bore Shine is used as it comes from the bottle. We use Bore Tech Eliminator to control copper buildup. The following procedure is recommended after each string of 10 to 20 shots:

### **Break IN for Non-Moly Bullets:**

1. Insert Bore Guide in the Rifle. (Ensure the O-ring is clean so that it does not leave any marks in the chamber)
2. Clean the new bore with a patch saturated in Kroil.

3. Dry bore with two or three individual patches
4. Put two small drops of Kroil on a patch and run through bore. (Or saturate a patch with lock ease and run through bore.) Remember to dry chamber with a swab.
5. Shoot five shots.
6. Run a patch saturated with TM Solutions Bore Solvent or Shooter's Choice/Kroil, Butch's Bore Shine through the bore
7. Wet a proper sized phosphor bronze brush with Shooter's Choice/Kroil, Butch's Bore Shine or and make 10 to 15 passes through the bore
8. Pass two patches wetted with Shooter's Choice/Kroil, Butch's Bore Shine or TM Solutions Bore Solvent through the bore individually.
9. Dry Bore with two dry patches.
10. Impregnate a patch with JB bore paste and short stroke the length of the barrel. Look in end of barrel and see if you can see any copper streaks. If not, proceed. If you can see copper, repeat the JB treatment.
11. Run a couple of individual patches saturated with Kroil through the bore
12. Dry the bore with one to two patches
13. Use two small drops of Kroil on a patch and run through the bore prior to shooting.(or use a patch saturated with Lock ease)
14. Repeat steps 5 through 13 4 times (total of 5, 5 shot groups)

### **Standard Cleaning Method #1 ( for Butch's or SC#7): (if using Bore Tech products follow instructions on their bottle)**

1. Insert Bore Guide in the Rifle. (Ensure the O-ring is clean so that it does not leave any marks in the chamber)
2. Wet a proper sized cleaning patch with Shooter's Choice/Kroil, or Butch's Bore Shine and run through the bore.

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3. Wet a proper sized phosphor bronze brush with Shooter's Choice/Kroil or Butch's Bore Shine and make 10 to 15 passes through the bore.
4. Pass two patches wetted with Shooter's Choice/Kroil or Butch's Bore Shine through the bore individually.
5. Let stand for about 15 minutes.
6. Pass two dry patches through the bore individually.
7. Put two to three very small drops of Shooter's Choice/Kroil or Butch's Bore Shine on the center of a patch and pass it through the bore to lubricate it prior to shooting. (This lubes the bore and minimizes erosion and fire cracking in the barrel as well as improving the ability to remove fouling later. **DO NOT OVERWET THE BORE AS HYDRAULIC DAMAGE COULD OCCUR**)
8. Dry the chamber with a chamber swab and patch. ( Do not use aerosols to dry the bore, many of them contain 1,1,1 Trichlorethylene or Trichlorethane and bore corrosion can result)
9. You are ready to shoot again.
8. Repeat until patches come out white.
9. Use Bore Tech carbon eliminator per instructions on bottle.
10. Dry the chamber with a chamber swab and patch. ( Do not use aerosols to dry the bore, many of them contain 1,1,1 Trichlorethylene or Trichlorethane and bore corrosion can result)
11. You are ready to shoot again.

We do not recommend the use of any strongly ammoniated compounds. The ammoniated compounds are rapid corrosive agents in 416 Stainless Steel. Following the above cleaning procedures should minimize or prevent the build up of copper fouling if done properly.

Many individuals have used the ammoniated compounds to "test" to see if they have copper fouling. Please be fore-warned that once the strong ammoniated compounds are used in SS bores, etching has usually occurred and then copper fouling and pitting can be expected.

If for some reason you have a barrel-bullet combination that tends to foul, the occasional use of JB or USP paste is recommended. Extreme care needs to be used when working with an abrasive. Ensure you have cleaned all residual abrasive from the chamber and bore prior to shooting the rifle.

## **Standard Cleaning Method #2 ( Bore Tech):**

1. Insert Bore Guide in the Rifle. (Ensure the O-ring is clean so that it does not leave any marks in the chamber)
2. Wet a proper sized cleaning patch with CU4 and run through the bore.
3. Repeat #2 for up to 5 patches.
4. Wet a proper sized nylon brush with CU4 and make 10 to 15 passes through the bore.
5. Pass at least three patches wetted with CU4 bore individually.
6. Let stand for about 15 minutes.
7. Pass two dry patches through the bore individually and inspect for blue color. If blue color still exists pass three to four more patches wet with CU4 through the bore and let stand

PAGE 2

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