

CORBIN Synthetic Sapphire BORE LAP

Corbin Synthetic Sapphire Bore Lap is composed of 40-micron size plates of a proprietary manufactured sapphire crystal, which has flat sides and narrow, sharp cutting edges. The controlled cutting action of these microscopic flat plates comes from proper application of a tightly fitted cloth, dipped in the compound and put over a snug brass brush of one caliber smaller size than the bore to be lapped. The secret is in the tight fit of the patch to the bore, and in the action used to work it through the bore: two inches forward, then one back, until it emerges from the muzzle.

Lapping in this manner forces the stiff brass bristles to “flip” over and press the cloth patch to the very bottom of the rifling grooves, where the tiny sapphire plates can press their flat sides against the bore and be pushed along, shearing off any roughness projecting from it. Severe fouling, copper, lead, plastic, various bullet coatings that build up in the bore, all can be removed quickly and easily with Corbin Bore Lap. (For normal cleaning, we recommend Corbin Bore Cleaner).



INSTRUCTIONS:

1. Shake the bottle well to mix the oil with the sapphire compound, which tends to settle in storage.
2. Place a cloth patch over a brass bore brush that is one caliber smaller than the bore you wish to lap.
3. Dip the clean patch into the bore lap, so that half the length of the patch is into the solution.
4. Hold the muzzle so you can push the patch through it from the breech end. If the barrel is still attached to an action, use a small cloth to catch any drips or extruded bore lap so it doesn't get into the mechanism.
5. Push the patch into the chamber and down into the rifling, so that it travels approximately two inches under mild to firm pressure (meaning, the patch is pressed about as far into the rifling as it can go). Then, pull the rod back about one inch to force the bristles to reverse and press the cloth patch even further into the corners of the rifling, and to work the sapphire in the reverse direction for further lapping. Push the patch another two inches forward, and back one inch again,
6. Repeat this two forward one back action until the patch emerges from the muzzle. Remove the patch and pull the rod back out. Put an oiled patch on the rod and wipe it through the bore to remove the remaining lap compound and materials it has loosened from the bore. Do not continue to lap the bore more than three times, since any significant improvement in smoothness will have already been accomplished by now, and roughness that resists this amount of lapping is too deep to be removed without also removing too much of the rifling. (there ARE hopeless barrels that can only be saved by rebaring!).
7. Do not use Corbin Bore Lap as your regular cleaning agent. If your barrel is severely fouled, it will remove the fouling, but repeated use may remove too much metal from the bore and start to erode the edges of the rifling. Instead, use Corbin Bore Cleaner, which can safely remove fouling and be used repeatedly. To preserve the barrel against rust and corrosion, wipe it with Corbin Dip Lube, a polarized synthetic wax solution that leaves a hard, dry waterproof film on steel or wood. It is also known as “Liquid Jacket” because it can coat lead bullets and reduce fouling.