

OPERATING INSTRUCTIONS FOR LYMAN'S "New Improved" *Super Moly Bullet Coating Kit*

Instructions Cover...

- Super Moly Tumble Coat Bullet Finishing Kits:
110V..... #7631343
220V..... #7631351
- Super Moly Bullet Finishing Kit (Less Tumbler)..#7631384



Contents Of Your New Kit...

Super Moly Tumble Coat Bullet Finishing Kits (110V & 220V)

- (1) Turbo Twin Tumbler Base
- (1) Turbo 600 Bowl (Thick, Smaller Diameter Bowl) And Cover
- (1) 1200 Pro Bowl With Sifter Lid
- (1) 2 Pounds Of Untreated Corn Cob Media
- (1) 6 Oz. Of Super-Fine Grade Moly
- (1) 1.75 Pounds Of Ceramic Polishing Media

Super Moly Bullet Finishing Kit (Less Tumbler)

- (2) Turbo 600 Bowls
- (1) 2 Pounds Of Untreated Corn Cob Media
- (1) 6 Oz. Of Super-Fine Grade Moly
- (1) 1.75 Pounds Of Ceramic Polishing Media

"After extensive Testing, Lyman has found a better media than steel to Moly Coat bullets. The new Ceramic Media in this kit has been found to provide a 30% more denser, uniform Moly Coating than obtained with steel media. This is evident by the flat black surface of the ceramic-coated bullets. In addition, the ceramic media is a hard material, yet lighter than steel."

Cautions...

- Always make sure your tumbler is plugged into a properly grounded outlet.
- Do not inhale or mishandle moly in any way.
- Make sure that you are located in a properly ventilated room when moly coating.
- Once you are done moly coating, clean up area thoroughly with ordinary soap and water.

Why Moly Coat...

Moly (short for molybdenum disulfide – MoS₂) is an extreme pressure lubricant that has developed a widespread following among serious rifle shooters. Moly's main benefit to the shooter is the reduction of bullet fouling left in the bore. This occurs due to the decrease in friction between the bullet and rifling when moly coated bullets are used. Fouling builds up in the rifle bore during shooting, and accuracy deteriorates. Reducing this fouling will allow the best accuracy to continue for many shots before cleaning is necessary. In addition, reducing friction can substantially increase barrel life.

Caution: Lead and jacketed bullets **should not** be tumble coated in the same bowl. Once lead bullets are used, the bowl and media are contaminated with lead residue and will no longer moly coat jacketed bullets properly. This contamination can also be caused by jacketed bullets with large areas of exposed lead tips. It is recommended that separate bowls be used for lead and jacketed bullets.

Moly Coating Bullets: If you have purchased the Super Moly Kit with the Turbo Twin Tumbler, please read the enclosed Reloading and Cast Bullet Guide for instructions on assembling and operating the tumbler. If you have the Super Moly Kit less tumbler, please refer to your instructions on operating your particular tumbler.

- Step 1:** Install the 600 bowl onto your tumbler. This thick bowl is designed to stand up to the abuse it will receive from tumbling ceramic polishing media and bullets.
- Step 2:** Place 1 3/4 lbs. of ceramic polishing media into the bowl.
- Step 3:** Place 100 bullets into the bowl and turn on the tumbler. This will mix the bullets and ceramic polishing media together.
- Step 4:** Add about ¼ teaspoon of Moly to the ceramic media and bullets. If this is the first time that the tumbler will be used, a small amount of additional moly may be needed. The Super-Fine Grade Moly goes a surprisingly long way, so once the media is coated, you may want to adjust the amount of moly used based on your results. Large bullets (30 cal. and up) may require more moly, while smaller bullets (under 30 cal.) may require less.
- Step 5:** Tumble the bullets for two to three hours. Properly coated bullets will have a solid grey appearance. The appearance will tell you if enough moly was used. If the bullets still show their original color, more moly and some additional tumbling time may be required. Bullets should not be tumbled more than four hours.
- Step 6:** Separate the bullets from the ceramic media. A homemade separator can easily be made using screen of the proper size, or Lyman's Turbo Sifter will work for all but 22 cal. bullets.
- Step 7:** Install the second bowl on the tumbler. This would be the 1200 Pro Bowl in the Super Moly Kit with the Twin Tumbler, or the second 600 bowl in the Super Moly Kit less tumbler.
- Step 8:** Place the 2 lbs. of untreated corn cob media into the bowl.
- Step 9:** Place the coated bullets into the bowl and turn on the tumbler. The bullets should be tumbled for only about two to five minutes. This will remove any excessive moly and make them cleaner to handle.
- Step 10:** Separate the bullets from the media. The bullets are now ready to be loaded.

Moly Questions and Answers:

Will Moly Coated Bullets Change Velocity And Pressures?

Moly coated bullets will decrease friction, so they will generally lower velocities and pressures somewhat versus the same load using uncoated bullets. We have found, however, that the amount of change will vary from caliber to caliber, gun to gun, load to load, etc. It is safe to use existing loading data developed with uncoated bullets with moly coated bullets, but not the other way around.

Will Moly Be Taken Out Of The Barrel During Cleaning?

No. You may see excessive moly on your cleaning patches, but moly will not be removed.

What Is Super-Fine Grade Moly?

Moly is commonly available in three grades. These are Super-fine, Technical-fine, and Technical. The finer the moly is, the better it works. Lyman uses Super-Fine Grade Moly in this kit, which has a median particle size of 1.5 microns. It is much more expensive than the other grades, but works the best. Technical-Fine has a median particle size of 6 microns and Technical is 30 microns.

Should Moly Coated Bullets Be Waxed?

Some shooters coat moly bullets with Carnuba wax after they are moly coated. Some claims have been made that the wax coating can add to barrel life. The main purpose, however, is to keep your fingers clean while handling moly coated bullets. Since our Super-Fine Grade Moly coats so very well, little rub-off occurs during handling. We therefore, feel that the time and expense of wax coating is unnecessary.

What If Bullets Are Difficult To Moly Coat?

If moly does not seem to be adhering well to the bullets, they may need to be degreased. Any oils, including those from your fingers can prevent moly from adhering to the bullet. Bullets can be degreased with alcohol or by tumbling them in clean, untreated corn cob media.

Can Nylon Tipped Bullets Be Moly Coated?

Yes. The moly coating process will not damage the nylon tips.

Do I Moly Coat Cast Bullets Before Or After Sizing And Lubing?

Cast bullets should be sized without lubing, and then moly coated. The moly coated bullets can then be lubed normally.

Note: If you have any further questions, contact Lyman Customer Service at 1-800-22-LYMAN, Monday-Friday 9:00 AM – 4:30PM ET.