



**TECHNICAL DATA SHEET SPARTAMAX MUSKET BLACK POWDER**  
**BIO BASE CLEANER-LUBE-PROTECT (CLP) P/N 866-99366**

**MUSKET BLACK POWDER Bio Clean-Lube-Protect ( CLP ) Product Information:**

- MUSKET BLACK POWDER Proprietary Cleaner-Lube-Protection product. Formulated with advanced Bio Base aerospace / synthetic chemistry and metal surface treatment. Universal for gun barrel bore & mechanical parts with solid film lubricant provides; high temperature durability, cold /sub-zero operation temperatures, reduced friction & long lasting features. Stay-ability upon surfaces with cleaner weapon performance (greatly reducing carbon, nitrite, residue particles & micro-dirt attraction). Increases overall component life cycles. Hot weather durability. **USDA Bio Preferred Bio-Base Registered Catalog Product as required by the DOD (Department of Defense), NASA & GSA.**

**Commercial Applications & Use:**

- MUSKET BLACK POWDER (CLP) is Universal for multiple related Black Power Applications Pistol, Gun & Rifle (small medium & large)
- MUSKET BLACK POWDER application during regular Cleaning & Lube of gun (barrel bore & parts).
- Bio Cleanse & Lube Protection of Gun Barrel Bore (increases durability & service life cycles).
- Bio Cleanse & Lube Protection of Internal & External Mechanical Parts, Bolt, Slide & Firing Pin Areas.
- **Special Dri-Plate** coating with time **embeds into barrel bore to reduce Carbon & Sulfur formation.**
- **Improved – Cleaner Fire Combustion Efficiency - blows more Carbon out muzzle.**

**Features & Benefits:**

- **MUSKET BLACK POWDER provides POWDER MANAGEMENT.** Designed to be left wet upon internal working and slide component surfaces. When Powder and contaminates come in contact with **special bio chemistry dissipates & holds carbon in manageable suspension - later wipes away.**
- MUSKET BLACK POWDER is compatible w/all metals, wood, composites, surfaces,
- Non-hazardous & non-flammable.
- Internal & external mechanical lubricant for extreme duty, hi-performance & long lasting requirements Aerospace synthetic (thin, light, durable for high & cold temp. stable) lubricant w/ **surface stay-ability.**
- Excellent anti-wear capabilities with reduced friction; **provides improved projectile consistency.**
- Barrel bore performance repeatability provide increased target penetration, distance & accuracy.
- **Gun barrel bore operates cooler** w/ longer service life cycles (historic – performance time doubles).
- Provides longer performance durations & maintenance cycles with reduced surface degradation.
- Metal Surface - Static Condition is greatly reduced which slows micro particle / surface embedding.
- **Resists static carbon & micro dirt particle attraction** into or upon barrel & mechanical components.
- Gun Powder - Sulfur particles which normally imbeds into barrel and mechanical component surfaces are greatly reduced. During maintenance easily wipes away with bio-solvent cleansing action.
- **Anti- Oxidation (rust) protection** upon metal surfaces 30 – 90 days (depending on conditions).
- Special polarization / attraction absorbs the aerospace nano-technology directly into the micron metal pores of component surfaces (barrel bore, firing pin, bolt, etc. no matter the surface).
- **USDA Bio-base, Bio-degradable and Bio-safe for personnel's physical application and use.**

**Typical Properties:**

- Pour Point: -76°F ( sub-zero - cold operations ) Flash Point: 249°F (extreme heat)
- Due to continual product research & development, the information contained herein is subject to change without notification. Typical Properties may vary slightly. MSDS's are available upon request.

**Packaging:**

- Commercial & Civilian use - Heavy Duty Bottle 1 oz. Sprayer (or service D-Cap) and 4oz Bio Gunsmith / Maintenance Product. Military specification containers are available as required

**SpartaMax Products, Spartaclean Bio-Technologies, Inc. (815) 637.1574 [www.spartamax.net](http://www.spartamax.net)**



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**MUSKET BLACK POWDER is designed to fulfill the following:**

**Intended use.** MUSKET BLACK POWDER (CLP) Product is for use in cleaning, lubricating & short-term (preservation of small & large caliber military weapons, which exceed the required minimum military specification temperature range of: -51 to + 71 °C (-60 to +160 °F). Highly penetrating, mobile liquid and is intended for field application to satisfy the complete need of cleaning, lubricating, and short term preservation of historic military weapons.

MUSKET BLACK POWDER (CLP) Facilitates effective removal of firing residues, gums & contaminants from weapon components, while providing lubrication & short term preservation for reliable operation.

**1. Product.**

**a) Moly, Graphite, Teflon.** MUSKET BLACK POWDER contains no Graphite, Moly, Teflon or other powdered metals.

**b) Ozone depleting substances (ODSs).** MUSKET BLACK POWDER (CLP) contains no ODSs.

**c) Toxicity and hazardous materials.** MUSKET BLACK POWDER has no adverse effect on the health of personnel when used for its intended purpose. "GREEN" Compliant with Bio Base Chemistry Materials.

**d) Color and appearance.** MUSKET BLACK POWDER (CLP) is uniform in color and appearance when examined in reflected light, and has no visible residue after shaking.

**2. Operating Requirements for Firing residue removal.** MUSKET BLACK POWDER (CLP) provides cleaning capability to remove a minimum average of 95 % of residue generated from ignition of propellant.

**3. Interface Requirements.**

**a) Corrosion production.** MUSKET BLACK POWDER, does not produce visual & acceptable evidence of corrosion such as pitting, etching, or dark discoloration, nor shall it cause a weight change in the metals, when applied to Zinc, Aluminum, Copper, Magnesium, Brass, Steel or Cadmium.

**b) Interference with chemical agent detector paper.** MUSKET BLACK POWDER applied to and allowed to soak into chemical agent detector paper shall cause no discoloration, in the soaked portion of the paper.

**3.Environmental Requirements.**

**a) Humidity resistance.** MUSKET BLACK POWDER (CLP), after 900 hours exposure in a humidity cabinet shall have little to no corrosion upon metal surface.

**b) Salt-spray resistance.** MUSKET BLACK POWDER (CLP), when applied, shall protect the metal surfaces after 100 hours exposure to a spray of 5 % salt solution.

**c) Water displacement and water stability.** MUSKET BLACK POWDER (CLP), shall displace water so that there is no evidence of rust spots, staining or pitting due to corrosion after storage in static humidity chamber for 1 hour.

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**Musket  
Black Powder  
Cleaner-Lube**

Reduces Carbon & Sulfur  
Musket - Cleaning & Lube  
Barrel Bore & Surface Area  
Bullet-Ball / Barrel Pre Lube  
Extended Rust Protection  
Reduces Friction & Static  
Bio Based Safe & Clean  
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