

BlueEagle™



TECHNICAL DATA SHEET BlueEagle CLP Product P/N 2021-44 CLP- Universal - Clean Lube Protection (Aerospace Synthetic w/50% BioBase)

BlueEagle CLP (Aerospace Synthetic w/ 50% BioBase) Product Information:

- BlueEagle CLP Proprietary Cleaner-Lube-Protection product. Formulated with advanced Bio Base and aerospace / synthetic chemistry. Universal for gun barrel bore & mechanical parts with aerospace 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.

Commercial – Firearms Applications & Use:

- BlueEagle CLP is Universal for multiple related Pistol, Gun & Rifle Applications (small medium & large) including small Handgun (pistol), Shot Guns, Rifles (regular, semi and fully automatic).
- BlueEagle CLP application & use 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.
- **BlueEagle CLP Special Formulation embeds *into barrel bore to reduce Carbon & Nitrite formation*. BlueEagle CLP Cleaner Fire Combustion Efficiency – blows carbon out muzzle end.**
- **FOR THOSE THAT DESIRE HI- PERFORMANCE & EASY CLEANING WITH THEIR FIREARM.**

Features & Benefits:

- **CARBON & CONTAMINATION MANAGEMENT.** Designed to be left wet upon internal working and slide component surfaces. When Powder and contaminates come in contact within BlueEagle **special biochemistry dissipates & holds carbon in manageable suspension - later wipes away.**
- Compatible w/all metals, composites, surfaces & non-hazardous (flash point above 150°F).
- 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.**
- Performance Repeatability capabilities **provides improved projectile consistency.**
- Barrel bore efficiency provide increased target penetration, distance, accuracy & repeatability.
- **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 - Nitrite particles which normally imbeds into barrel and mechanical component surfaces are greatly reduced. During maintenance easily wipes away with bio-solvent cleansing action.
- Special polarization / attraction absorbs the aerospace technology directly into the micron metal pours of component surfaces (barrel bore, firing pin, bolt, etc. no matter the surface).
- **USDA Bio-base, Bio-degradable and Bio-safe for physical application and use.**
- **NOTE: Always wash your hands using COLD water with soap and water.**
- 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.
- **BlueEagle CLP is SAFE of multiple surfaces** of Steel, Aluminum, Plastics including surfaces of Blueing, Wood & Varnish etc. **Completed and Maintained Firearm = Performance Repeatability.**



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Environmental Product for Safe BioBase USE/ fulfilling DoD, DLA & USDA "GREEN INITIATIVES":

- FULFILLS TOXICOLOGY REQUIREMENTS as issued by USAPH (US Army Public Health Center)
- +50% BioBase (Forestry & Citrus Materials) ASTM D6866 verified for BioBased Carbon Content
- FULFILLS USDA – Bio Preferred Program use of renewable resources (Forestry, Pine & Citrus)
- FULFILLS DoD SSPP – Department of Defense Strategic Sustainability Performance Plan regarding goals, initiatives & requirements for the replacement of "Chemicals of Concern".

BlueEagle CLP Technical Specifications same as Department of Defense Qualification Lab Testing

ODS	No Ozone Depleting Substances	PASS
Toxicity and hazardous materials	Cleared by US Army of Public Health	PASS
Color and appearance	Uniform in color and appearance	PASS

MIL SPEC OR ASTM TEST	QUALIFICATION	ACTUAL	
Flash Point	ASTM D92	65°C (+149 °F)	71°C (+160 °F) PASS
Pour Point	ASTM D97	-59 °C (-74 °F)	-60°C (-76 °F) PASS
Viscosity@+40C(104F)	ASTM D445	14.0 cSt	16.5 cSt PASS
Viscosity@ -40C(-40F)	ASTM D445	5000 cSt	1700 cSt PASS
Wear Prevention (3runs)	ASTM D4172	Max 0.8 max	3X AVG- 0.665 PASS
BioBase Content	ASTM D6866	28% BioBase C-14	50% BioBase C-14 PASS
Aluminum Submersion	ASTM B209	0.2 mg/cm2 (or less)	No Change mg/cm PASS
Steel Submersion	ASTM A109	0.2 mg/cm2 (or less)	No Change mg/cm PASS
Zinc Submersion	MIL-DTL-18001	1.5 mg/cm2 (or more)	No Change mg/cm PASS
Plastic Submersion	MIL 3.3.1.4	0.0 mg/cm2 (or less)	No Change mg/cm PASS
Copper Submersion	ASTM B152	1.5 mg/cm2 (or less)	No Change mg/cm PASS
Magnesium Sub.	AMS 4376	0.5 mg/cm2 (or less)	No Change mg/cm PASS
Brass Submersion	ASTM B16	1.0 mg/cm2 (or less)	No Change mg/cm PASS
Cadmium Submersion	A-A-51126	1.5 mg/cm2 (or less)	No Change mg/cm PASS
Water Displace/Stability	MIL 3.4.2	3 Panels clean	3 Panels Clean PASS
Firing Residue Removal	MIL 3.5.1	40% residue removed	+42% residue removed PASS
Freezing	MIL 3.5.2.1	No Fluid separation	No Fluid Separation PASS
Heating	MIL 3.5.2.2	No Fluid separation	No Fluid Separation PASS
Abrasive Cleaning	MIL 3.5.3.1	0.10 mg/cm2 removal	0.11 mg/cm2 removed PASS
Chemical Detection Paper		NO discolor	NO DISCOLOR PASS

