

AT 1455 – ALPHASHIELD GUNS & FIREARMS

NANO-CERAMIC COATING

TECHNICAL DATA SHEET

AT 1455 is the ultimate protective coating for gun and firearm parts. It is clear, slick, highly durable, and provides unmatched anti-corrosion protection. AT 1455 is the perfect non-oil lubricant for maximum long-term performance. The coating may be placed on virtually any polymer or metal component in a firearm. Coated surfaces will not collect dust or grime like with oiled components. Moving components will stay slick and efficient in even the most challenging environments. AT 1455 is easy to apply and a single application provides long lasting protection.

Proudly manufactured in the USA.

Technical Data

Color	Clear
Viscosity	16-18 sec. #2 Zahn
Percent of Solids (%)	14
V.O.C	Exempt per CFR 51.1 / Regulation 8
RoHS	Compliant
REACH	Compliant
Halogens	None
Thermal Stability (cured)	1200°F / 648.8°C
Conical Bond (1/8" Mandrel) (ASTM D522-93a)	Passed
Cross Cut Adhesion (ASTM D3359)	5B
Coefficient of Friction (ASTM D2047)	0.03μ
Specific Gravity (ASTM D891-09)	0.889
Pencil Hardness (ASTM D3363)	8h
Odor (liquid)	Slight Solvent
Odor (cured)	None

Key Performance Properties

- High performance, ambient air cured coating with easy wipe-on application.
- Creates a covalent bond to the substrate to become a permanent part of the metallic structure.
- Ultra-thin application will not negatively impact forearm performance.
- Extremely tough & durable for long lasting high performance.
- Extreme high temperature resistance, including to direct flame.
- Excellent corrosion resistance.
- Dry lubrication properties work with or without the use of oil.
- A single application provides long lasting performance.
- RoHS and REACH compliant.

Drying and Coverage Rate

Average Applied Dry Film Thickness	2 to 5 microns
Estimated Coverage Rate (@3 microns)	1,900 ft ² (180 m ²) per gallon
Dry to Touch Time (@ 77°F / 25°C) *Warm airflow will reduce drying time	15 – 25 minutes (average)
Ambient Cure (Full Properties) *Ambient cured properties normally exceed those of oven cure	5 days
Oven Cure (Convection Type Air Flow)	1200°F 30 minutes (Part Temperature)

Common Applications

Generally suitable for any firearm component where oil lubrication is commonly used including any moving component such as firing pin, magazine, etc.

Supplemental Information

AT 1455 does not require the additional use of lubricating oil. Oil may be applied without harming the AT 1455 coating.