# AnoBlack [Ni]TE

## *Autocatalytic Black Coating*

Traditional electrodeposited black coatings have their drawbacks. Black chrome has poor throwing efficiency while black nickel provides, at best, a dark gray appearance and is prone to fingerprints. Black oxide for copper, best known as Ebanol C, is matte black but can't be readily handled and is smutty.

AnoBlack™ NiTE represents a breakthrough in applying a robust, deep black coating. Unlike electrodeposited coatings which are notorious for non-uniform build-up, AnoBlack™ NiTE deposits evenly on all surfaces, making it a perfect candidate for intricate small parts, larger parts with complex internal geometries or highly precision machined optical housings, lens barrels and the like.

### Typical Physical Properties

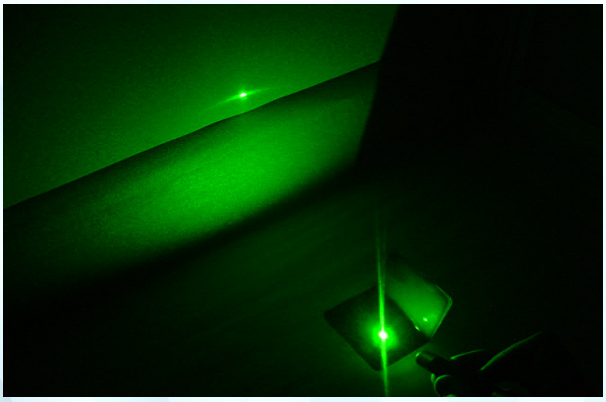
| | | |
|---|---|---|
| *Composition:* | *Nickel:* | *95-97%* |
| | *Phosphorus:* | *3-5%* |
| *Coating Thickness:* | *0.0007" (~ 18 µm) Minimum* | |
| *Appearance:* | *Lusterless, black* | |
| *Reflectance:* | *0.5% @ 633nm* | |
| *Thermal Cycling:* | *Passed* | |
| *Therm-Vacuum:* | *Passed* | |

### Typical Applications

- Exterior military components requiring resistance to wear, corrosion, and CARC-decontamination protocols.
- Connector shells, gun magazine clips, electronic enclosures, and linear motion actuation equipment.

Qualitative spectral and diffuse reflectivity comparison between a) Conventional matte black chrome-the traditional industry standard in non-reflective optical coatings; b) Anoplate's AnoBlack NiTE.

A)



B)

### Key Advantages

- Exceeds 100+ hours to corrosion resistance when salt spray tested per ASTM B 117.
- Can be applied to ferrous, aluminum, and copper-based substrates among others.
- Excellent coating uniformity on exterior as well as interior surfaces makes it a perfect candidate for intricate-shaped, highly precision machined components.
- Can be sealed to further enhance specific corrosion, wear or electrical characteristics as needed for particular applications.

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