AnoBlack Cr

Durable, Deep Black Coating for Critical Optical Components

AnoBlack Cr is Anoplate's proprietary black chrome deposit. **AnoBlack Cr** deposits a deep, matte black that is proven to reduce glint and glare in your critical optical components.

One of the first applications for **AnoBlack Cr** was coating the optical heads of opthalmascopes, providing a low-reflection light-path for the lens assembly and a durable, appealing black coating on the outside that would take the abuse of day-to-day use in the doctor's office. Since then, Anoplate's **AnoBlack Cr** coating has been specified by name on various spaceflight, defense and medical device drawings.

DESIGN CONSIDERATIONS

- There are no controllable thickness ranges for AnoBlack Cr, however Anoplate's experience is that the coating typically adds 0.0002-0.0003" of thickness per surface. On most substrates, a underplate of nickel is required which adds additional thickness.
- If directed AnoBlack Cr can be supplied with a light oil to improve the aesthetic look and corrosion performance
- AnoBlack Cr has a natural knap on the surface. If desired, Anoplate can remove the knap by brushing the part afterward to expose the adherent black coating underneath.

SPECIFICATIONS

- MIL-C-14538
- ♦ MIL-DTL-14538
- Various customer-developed specifications

TYPICAL APPLICATIONS

- Avionic fasteners and controls
- Optical light sinks for spaceflight instruments
- Medical diagnostic instruments
- Military night sights
- Control buttons and nobs

PHYSICAL PROPERTIES

- Good wear resistance
- ♦ Thermal Cycling Up to 900°F
- Optical Absorbance 0.98
- Emissivity 0.05

COMPATIBLE MATERIALS

- Steel
- Stainless Steel
- Inconel, Monel, Invar, Covar
- Aluminum
- Brass & Copper



