

AnoVa Black

Energy Efficient Deep Black for Steel
No Reddish Appearance – No Salts

Product Description

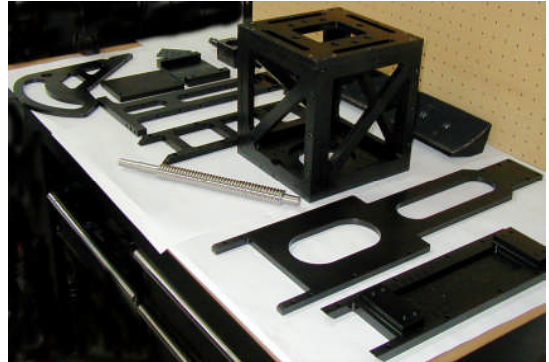
- ▶ Highly durable, satin black magnetite coating with no hydrogen embrittlement
- ▶ Meets or exceeds military specification MIL-DTL-13924 Class 1 conformance requirements as well as AMS 2485
- ▶ Done in highly diluted solution without heavy, alkaline salts typically associated with other black oxide processes
- ▶ Able to thoroughly blacken notoriously difficult ferrous alloys including malleable iron, hardened steel, cast iron, powdered metal and metal-injection-molded (MIM)
- ▶ Can be further preserved with a variety of dry or wet oils or lubricants



As AnoVa **Black** is applied using an immersion process, it's more economical than plating and can be done in baskets or barrels.

Typical Physical Properties

| | |
|-----------------------|--|
| Composition: | Iron Oxide - Fe_3O_4 |
| Appearance: | Satin, opaque black |
| Thickness: | 0.00002" (<i>typical</i>) |
| Embrittlement: | None |
| Corrosion Resistance: | Limited (<i>by itself without oil</i>) |



Due to negligible dimensional change upon coating, Anoplate's **AnoVa Black** is used on a variety of precision machined components

Summary

Anoplate's **AnoVa Black** offers all the advantages of a military specification black oxide without color variability, white salts and excess smut typical of conventional black oxide coatings.

Alternative cold black oxide treatments which utilize toxic selenium-based chemistry result in a more fragile black and do not meet most specifications.

With an internationally accredited ISO 9001 Quality Management System and ISO 14001 Environmental Management System, Anoplate is committed to continual improvement and routinely reducing its environmental impact – Anoplate's **AnoVa Black** is another product of that commitment.



Similar to conventional gun bluing, **AnoVa Black**, is applied to a variety of sporting goods items and tools.