



Black Ziron

Combining extended corrosion resistance and environmental durability

Black Ziron uses proven alkaline, non-cyanide plating chemistry for even plate distribution over a wide range of current density. Many jobs which require expensive internal anodes (if plated in cyanide or acid zinc solutions) can be done without dedicated fixtures saving time and considerable money.

The benefits of iron addition from a corrosion resistance standpoint are maximized while alloying zinc with a controlled amount of iron resulting in a 0.3 – 0.8 weight percent iron deposit. Black Ziron offers consistent corrosion resistance at least five times better than that of conventional zinc plating in many applications. Alternatively, Anoplate's Ziron alloy coating is offered with a yellow or olive drab chromate.

Black Ziron utilizes a silver-free chromate post-treatment so there is no tendency for the black to fade to green as frequently encountered with conventional black zinc plating.

Zinc Iron Alloy Specifications*

Originator	Spec Title	Designation
ASTM	Electro-Deposited Coatings for Zinc Iron	B842
General Motors	Corrosion Protective Zinc Alloy Plating	GM 6280M

*Black Ziron meets or exceeds the requirements of these specifications

Zinc Alloy Deposits: Typical Hours to Rust in Salt Spray*

Alloy / Chromate	White Rust	Red Rust
Black Ziron	250	800
Zinc-Cobalt / Black	200	500
Zinc-Cobalt / Yellow	250	500
Zinc-Tin / Black	100	500
Zinc / Yellow	100	200

*Based on ASTM B 117 Neutral Salt Spray (5%) Testing at 0.0002 inch thickness