



ELECTROPLATED ZINC-IRON

Description

It is a zinc alloy coating with a Fe content of 0.4% to 0.8%. It offers a higher corrosion resistance than pure zinc plating and thus, you can use for application where a medium term corrosion protection is needed and a higher thermal resistance for short periods of time is required. Black and transparent passivation can be applied, though the most used is the black passivation. Inorganic and organic top-coats can be applied to increase corrosion protection.



Electroplated zinc-iron with CR6-free passivation provides a medium term corrosion resistance and a service temperature resistance up to 120°C.

Corrosion resistance properties

Corrosion resistance in salt spray test ISO 9227 with a coating of ZnFe 0.4% to 0.8%. Values indicated below are considered minimum requirements.

General properties

- Risk of embrittlement by hydrogen
- Medium corrosion resistance with CR6-free black passivation and top-coat
- Service temperature resistance up to 120°C with black passivation and top-coat



Pieza Recubierta con Zi Fe

Coating	System	White rust	Red rust	CrVI
E-plated ZnFe black passivation Cr6-free + top-coat	Barrel	200h	360h	No

Application technology

Barrel

Rack

Standards and specs

- BMW GS90010
- DAIMLER DBL8451
- GM GME00252
- RENAULT 0171002R
- VDA VDA235-104

Uses

One of the limitations of electroplated coating is the risk of hydrogen embrittlement when applied to high-strength fasteners. Hydrogen embrittlement can appear on high-strength fasteners when electroplated. The recommendations listed below can be followed:

- High-strength steel parts $R_m > 1000\text{N/mm}^2$ and volts PC 10.9. They should not be zinc-iron plated. Zinc flake coatings are here recommended
- 12.9 volts. Zinc-iron plating and previous acid pickling is forbidden
- Fasteners with high-strength spring washer. Zinc-iron plating should not be applied.

THIS TREATMENT IS APPLIED DIRECTLY IN LINE OR IN COMBINATION WITH PREVIOUS AND SUBSEQUENT APPLICATIONS.

GALOL S.A. offers the possibility to reduce logistic costs between the different operations of manufacturing of the part.

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