

GALZIN®

What is Galzin®?

Galzin® is a custom designed and developed Zinc alloy corrosion-resistant coating applied by a Mechanical Plating process. This uniquely designed alloy offers protection to the ferrous metal component and is significantly more corrosion resistant than a conventional zinc coating, either Hot Dipped Galvanized or Mechanical Galvanized.

Why was Galzin® developed?

Hot Dipped Galvanizing has served as the primary sacrificial corrosion protective coating for over 100 years. However it does have some limitations and is often unsuitable for use on small components, washers and heat treated parts.

Our aim was to develop both an improved, yet compatible alternative coating to Hot Dipped Galvanizing. Extensive testing and research has demonstrated that our new Galzin® coating offers a significant improvement in both performance and quality, when compared to Hot Dipped Galvanized parts.

What are the benefits of using Galzin®?

When Galzin® is applied, it eliminates the majority of problems which occur in other galvanizing processes. It also has its own benefits including:

- Improved corrosion protection
- Sacrificial protection due to its metal alloys
- Compatibility with H.D.G
- Reduced white rusting
- Better thread fit
- No galling
- More uniform finish
- No hydrogen embrittlement
- No de-tempering
- No sticking parts

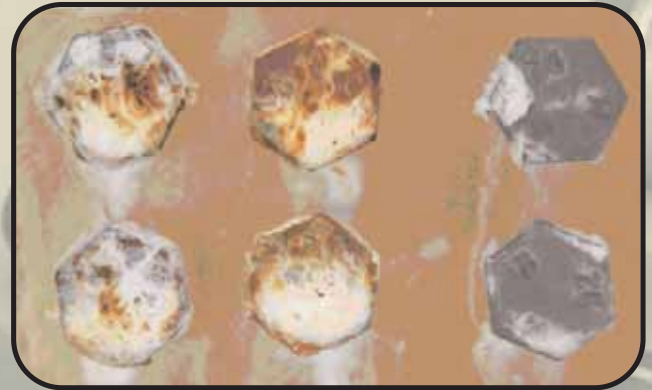
Where Galzin® should be used

Galzin® has been designed for use in the building and construction industries where existing Hot Dipped Galvanized parts are specified. We recommend Galzin® in environmental categories 1,2 & 3 of ISO 9223. If category 4 corrosion resistance is required, we are also able to apply other coating system in order for it to meet customer requirements.

55 micron
Zinc

Hot Dip
Galvanized

GALZIN®



The above photograph demonstrates the corrosive resistance of the 25 micron Galzin® coating. It has out performed both Hot Dipped Galvanized & Mechanical Galvanized. This accelerated corrosion test equates to a 30 - 80 * years exposure in a Category 3 environment of ISO 9223.

* Exposure estimated using Zinc Loss method from accelerated corrosion test.



Products suitable for the Galzin® process include:

- Bolts
- Nuts (including Nylon insert Locknuts)
- Screws
- Flat Washers
- Spring washers
- Lock Washers
- Masonry Anchors
- Socket Head Cap Screws & CSK Socket Screws
- Threaded rods
- Metal pressings and stampings

ALZIN®
COATING SYSTEMS

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