



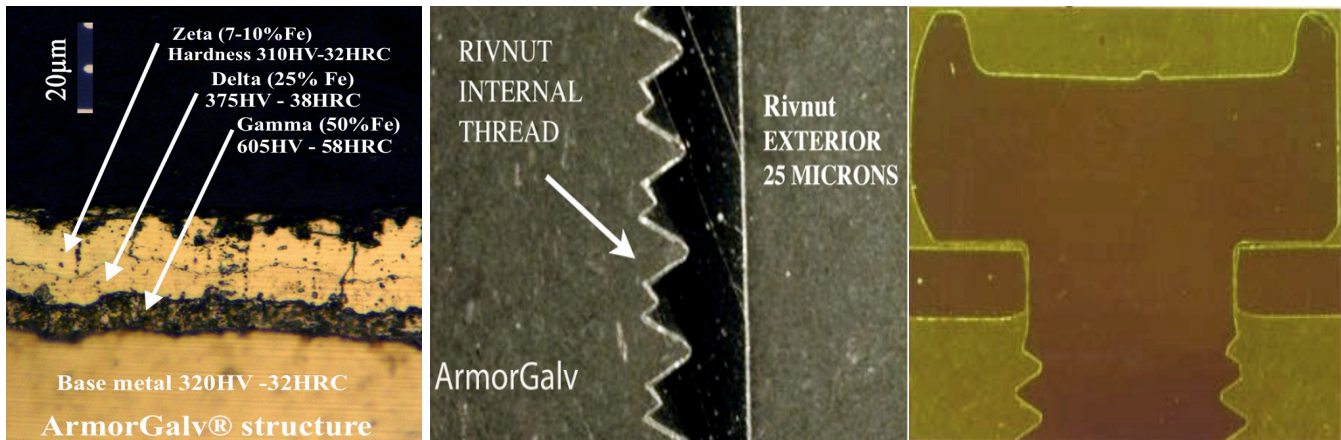
## ArmorGalv® Thermal Diffusion

### Environment-friendly, cost effective corrosion protection.

The **ArmorGalv®** technology is an environment-friendly process that offers superior corrosion protection and wear resistance as well as anti-galling properties. Following are some highlights of the **ArmorGalv®** technology which is, in fact, a modern, greatly improved, version of the well established Sherardizing zinc/iron vapor diffusion process:

**ArmorGalv®** is not merely a sacrificial coating. It coats and penetrates the surface of any steel part, including wrought and/or forged steel, castings, powdered metal (with no impregnation required!), and all grades of stainless steel, creating a zinc/iron alloy, integrated with the part that is:

- Controllable and Precise - Thicknesses from 10µ-150µ (0.0004” to 6 Mils).



- Highly Corrosion and Abrasion Resistant.

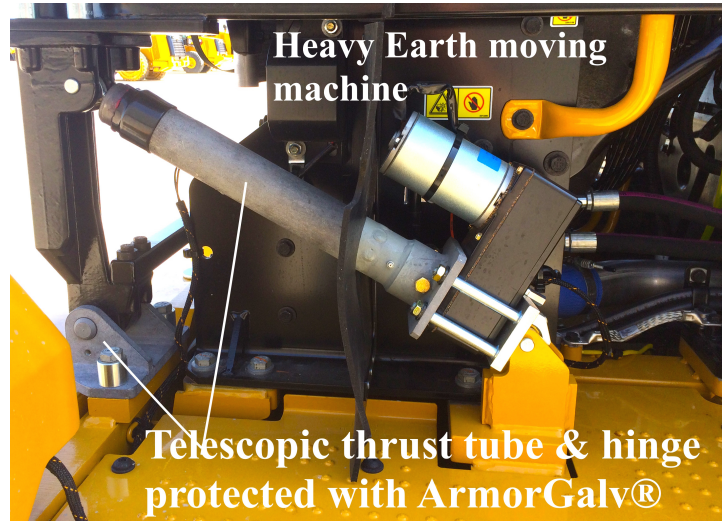


- Chip Proof and Amenable to Crimping and Bending.
- Highly Heat Resistant 1200°F (650°C) continuous service.
- Creates a bearing-like surface for metal on metal low friction operation.
- Excellent anti-Galling properties – a replacement for Cadmium.

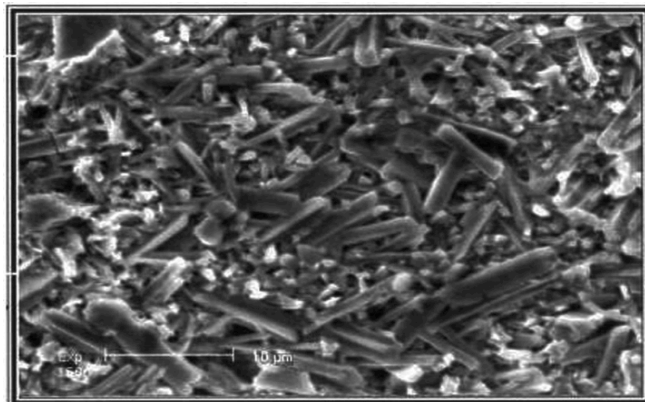




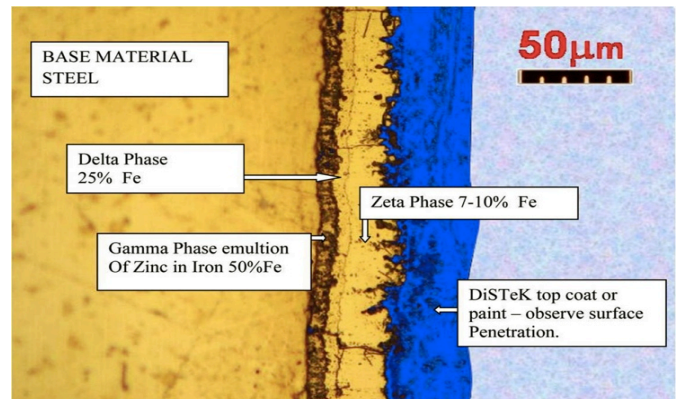
Environment-friendly thermal Diffusion Galvanizing



- Works extremely well in harsh marine environment.
- Hydrogen Embrittlement free. Heat treated parts can safely be coated.
- Totally heavy metal free non-toxic (RoHS compliant). Recipient of the EPA’s MVP<sup>2</sup> award (Most Valuable Pollution Prevention technology).
- Excellent base for paint, powder- coating and rubber bonding, due to the micro sponge-like nature of the surface. The surface “absorbs” top coating materials.



ArmorGalv sponge-like surface



cross section– notice paint penetration

The unique combination of properties offered by the ArmorGalv® coating, make it an excellent replacement for cadmium, chromium and other toxic materials and make it ideal for a multitude of applications, improving operational reliability, reducing maintenance and reducing costs.

The ArmorGalv® process is covered by ASTM # A1059.

Any part on a ship, protected with ArmorGalv®, will be there, maintenance free, for the life of the ship!

