

The image features a dark blue background with a white utility pole and crossarm. The pole has several red insulators and power lines. At the top, a red rectangular sign with a white border contains the word "KORTICK" in white, bold, sans-serif capital letters. Below the sign, the text "Pole Line Hardware Construction Specialties" is written in a white, cursive script. The utility pole and crossarm are shown in a perspective view, with the crossarm extending horizontally across the middle of the frame.

KORTICK

*Pole Line Hardware
Construction Specialties*

Thermal Diffusion
Galvanizing
Comparative
1500 Hr B117 Salt
Spray Results

Testing Background

- Testing done at independent certified lab:
Calcoast-ITL
683 Thornton Street
San Leandro, CA 94577 USA
- ASTM B117 protocol
- Start Date 9/9/2013
- Complete as of 11/11/2013

Definitions

- “HDG”-Hot Dip Galvanizing per ASTM 153
- “TDG”-Thermal Diffusion Galvanizing per ASTM 1059
- “ERX”-two samples have corrosion resistant paint applied on top of HDG or TDG. *(ERX intended for structural components. Applied to bolts for comparative corrosion purposes only. Not for use on field bolts)*
- “SS” stainless steel. Both grades 304 and 316
- “Zinc Electroplating” per ASTM F1941

Bolts Tested-Pictured at 500 Hrs



First row from left to right: ERX painted HDG, 316ss, 316ss, 304ss, 304ss, HDG silicate coated, HDG silicate coated, HDG, HDG, TDG

Second row from left to right: ERX painted TDG, Electroplated, Aluminum, TDG

All @ 1500 Hrs



From left to right:

TDG (2), 316 SS (2), 304 SS (2), Silicate Coated HDG (2), HDG (2),
Aluminum(1), electroplated (1), ERX TDG (1), ERX HDG (1)

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TDG @ 1500 Hrs



316 SS @ 1500 Hrs



304 SS @ 1500 Hrs



HDG @ 1500 Hrs



HDG Silicate Coated @ 1500 Hrs



Top-Electro Plated Coated Bottom-Aluminum @ 1500 Hrs



Top-ERX painted on HDG, Bottom ERX painted on TDG @ 1500 Hrs



All @ 1000 Hrs



TDG, HDG @ 1000 Hrs



Threads close up @ 1000 Hrs



Thread Status:

316 SS-one minor corrosion point. Usable

HDG Silicate-corroded. Unusable

HDG-Badly corroded. Unusable

TDG-No corrosion. Usable

HDG @ 500 Hrs



Status:
Heavily corroded
Frozen Threads
Unusable

TDG @ 500 Hrs



Status:

Zero corrosion head, body, chamfer.

Free threads with zero corrosion.

Silicate Coated HDG @ 500 Hrs



Status:

Heavy corrosion
head, chamber,
body, threads.
Frozen Threads,
unusable.

304 and 316 SS @ 500 Hrs



304 Status:

Minor corrosion point on head and chamfer.

No body corrosion

Fully functional threads, one minor corrosion point.



316 Status:

Minor corrosion point on head and chamfer.

No body corrosion

Fully functional threads, no corrosion

Aluminum @ 500 Hrs



Status:
Heavily corroded
unusable

Electroplated Zinc @ 500 Hrs



Status:
Heavily corroded
unusable

Kortick Manufacturing Hayward, California

Experience, Expertise, and Innovation in
T&D Hardware

The logo for Kortick Manufacturing, featuring the word "KORTICK" in a bold, black, sans-serif font with a white outline, set against a red background within a black rectangular border.

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