



# Paladin RoHS Electroless Nickel PLATING SYSTEMS

Ronatec is proud to introduce the Paladin RoHS EN line of electroless nickel processes. Paladin processes offer highly elevated corrosion performance for both high and medium phosphorous applications.



**RONATEC**

icf SAK-CO TECH Inc. Metal X



Ronatec Paladin RoHS EN electroless processes exhibit unmatched corrosion resistance. In addition, the high phosphorous process yields exceptionally high as plated micro-hardness and wear resistance while also retaining all the typical properties of a traditional process. The medium phosphorous process provides enhanced corrosion resistance as well as all typical properties. Paladin RoHS EN coatings may also be heat treated to further enhance physical properties.

## COMPARATIVE DATA

All NSS panels plated to 0.0015 inch (0.038 mm) for iron-based alloys per AMS 2404J

### High Phosphorous

#### Paladin RoHS EN 2012:

- NSS - 8500 hours
- Micro-Hardness - 570 to 620 HK as plated
- Wear resistance - 9.8 mg / 1000 cycles as plated

### Standard High Phosphorous EN:

- NSS - 500 - 1000 hours
- Micro-Hardness - 450 - 525 HK as plated
- Wear resistance - 22 - 24 mg / 1000 cycles as plated

### Medium Phosphorous

#### Paladin RoHS EN 2000:

NSS - 350 hours

#### Standard Medium Phosphorous EN:

NSS - 100 hours

*"The Paladin Shield is a revolutionary EN product which combines with the structure of the base substrate that produces a virtually impregnable barrier against corrosion. This results in a coating that has vastly superior corrosion protection with increased hardness and wear resistance as well."*

