



NiPro[®] High Phosphorous Electroless Nickel Coating

INTRODUCTION

Giant Coatings offers an excellent corrosion resistant protective coating option with our High Phosphorous Electroless Nickel. High phosphorous ENC offers maximum resistance in strongly acidic corrosive environments – ENC is most commonly used to protect against CO₂ gasses and CO₂ Injection wells in the Oil & Gas Industry. The auto-catalytic reaction causes the nickel coating to deposit onto the substrate, creating a uniform coating throughout the entire tool. With a plated hardness of ~45 Rockwell C, along with great adhesion to the substrate, EN plating also offers good wear resistant and anti-galling properties.

BENEFITS

- Withstands over 1000hrs of salt spray exposure test with no rust (Excellent corrosion resistance).
- Uniform plating procedure, even on complex parts.
- Very low porosity in deposits provides an excellent barrier for corrosion protection.
- Recommended in highly acidic corrosive environments
- Great protection against CO₂

APPLICATIONS

- **DOWNHOLE**
 - Frac Tools
 - Pup Joints
 - Packers
 - Tubing
- **WELLHEAD**
 - BOP Components
 - Gate Valves
 - Hangers
 - Flanges
- **ESP STAGES**
 - Diffusers
 - Impellers
 - Spacers
 - Heads & Bases
- **ANSI VALVES**

