

# IMPREGLON<sup>®</sup> 505

## WEAR RESISTANT COATING FOR CORROSIVE ENVIRONMENTS

### Introduction

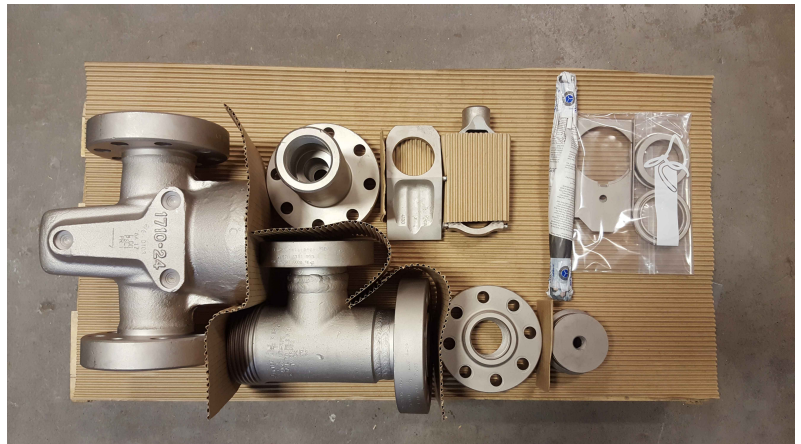
Impreglon<sup>®</sup> 505 is an Electroless Nickel Coating (ENC) designed to prevent corrosion and reduce wear. 505's high phosphorus content offers excellent chemical resistance even at thicknesses as low as 1 mil. 505 also offers superior abrasion and wear resistance vs. organic coatings. Impreglon<sup>®</sup> 505 plates evenly on complex shapes resulting in a uniform, pin-hole free protective barrier.

#### IMPREGLON<sup>®</sup> 505 reduces or eliminates the need for:

- Corrosion Resistant Alloys
- Hard Surfacing
- Chemical Inhibitors
- Pre- or post-machining

#### Typical Applications

- Downhole
  - Multi-stage frac tools
  - Packers
  - Pup joints
  - Tubing
- Wellhead equipment
  - BOP Components
  - Gate Valves
  - Hangars, Adapter Flanges, Etc.
- ANSI Valves



#### Recommended Services

<b>Corrosion</b>	H <sub>2</sub> S, CO <sub>2</sub> , Brines, Acids and Acid Gases
<b>Wear/Abrasion</b>	Replaces some high alloy materials

#### Physical Properties

<b>Thickness Range</b>	1 to 1.5 mils (corrosion service)
<b>Phosphorus Content</b>	10-12%
<b>Maximum Operating Temperature</b>	550°F for corrosion service
<b>Hardness</b>	41 to 46 Rockwell
<b>Elongation</b>	1 to 2.5%
<b>Tensile Strength</b>	Exceeds 100kpsi
<b>Bond Strength</b>	60kpsi or more