



IMPREGLON[®] 505

WEAR RESISTANT COATING FOR CORROSIVE ENVIRONMENTS

Introduction

Impreglon[®] 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[®] 505 plates evenly on complex shapes resulting in a uniform, pin-hole free protective barrier.

IMPREGLON[®] 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

Corrosion	H2S, CO2, Brines, Acids and Acid Gases
Wear/Abrasion	Replaces some high alloy materials

Physical Properties

Thickness Range	1 to 1.5 mils (corrosion service)
Phosphorus Content	10-12%
Maximum Operating Temperature	From cryogenic to 400°F for continuous operation
Hardness	41 to 46 Rockwell
Elongation	1 to 2.5%
Tensile Strength	Exceeds 100kpsi
Bond Strength	60kpsi or more