SRP-55 deposits have a nickel-phosphorous alloy that is deposited by means of an autocatalytic reduction of metal from solution without the use electricity. SRP-55 coatings are noted for the following properties: Coating is uniform homogeneous and amorphous, semi-bright Electroless nickel process with high phosphorous.

SRP-55 is a high-performance Electroless Nickel, designed to protect steel parts used in multiple applications in the oil and gas industry. Its superior hardness, corrosion resistance, heat resistance and thin mil application allows for parts to be 100% protected. SRP-55's versatility makes it an excellent choice for protecting steel parts and lowering operating expenses.

Additional Information:

Ductility

- **Recommended Services:** • CO₂ injection (WAG)
- Oil / water / gas production
- Salt water disposal (SWD)
- Gas production
- Brine water remediation

Benefits:

Nickel (SRP-55)

PRODUCT SPECIFICATIONS

- Excellent flexibility
- Excellent temperature resistance
- Excellent corrosion resistance
- Excellent wear resistance

Characteristics:

- Color: Dull silver
- Generic type: Electroless Nickel
- Operating temperatures: 450°F (232°C)
- Thickness: 1 mils as deposited

Typical Engineering Properties of SRP-55

Property ASTM Value Hardness (As plated) Rockwell 48 - 52 Hardness (Heat treated) Rockwell 750°F for 1 hour 62 - 68 Taber wear index Mg/1000 cycles D-4060 18 - 22 Taber wear index - Heat Treated Mg/1000 cycles D-4060 10 - 15 Coefficient of friction - vs steel (dry) 0.38 Coefficient of friction - vs steel (lubricated) 0.20 Thermal spray hours - 1 mil B-117 1000 **Corrosion Resistance** Exposure to various corrosive environments D-4060 50

*These test results are presented as simulated conditions and should be used as guidelines only; they are not intended for warranty serviceability.

Technical Specifications:

- Hardness : 48-52 Rc as plated
- Phosphorous Content: 10-12.0 wt. %

B-571

Pass

• Internal Stress : Compressive

Coating Capabilities:

- Fittings
- Valves
- ESP stages
- Downhole tools

