

IPC 1850AR is a thermosetting modified epoxy powder coating specially engineered for internal application of downhole tubulars used in rod pump producing wells.

IPC 1850AR is a high-performance epoxy powder specifically designed to offer the highest degree of protection in terms of chemical resistance, abrasion resistance, and elevated operating temperatures. 1850AR provides unparalleled protection when it comes to the most corrosive elements found in the oil and gas industry.

Additional Information:

Recommended Services:

- Rod pump production
- Saltwater disposal wells
- CO₂ (WAG) / H₂O injection
- High solids / high fluid rate production
- High H₂S environments
- High temperatures

Benefits:

- Excellent abrasion resistance
- Excellent corrosion resistance
- Excellent adhesion
- Low permeability

Characteristics:

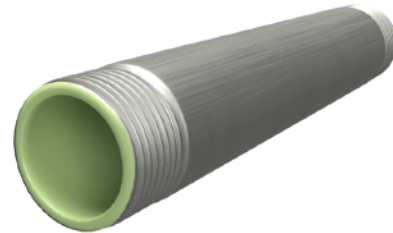
- Color: light green
- Generic type: Cresol Novolac
- Primer: phenolic
- Operating temperatures: 300°F (149°C)
- Thickness: 10-20 dry mils

Abrasion Resistance (Taber Abrasion Test | ASTM D4060):

- CS-17 wheel at 1,000g load at 1,000 cycles
- Average weight loss: 5.0 mg

Coating Capabilities:

- Tubing: 2 3/8" - 4 1/2"
- Casing: 4 1/2" - 7"



Successful Autoclave Results*:

Temperature	Pressure	Test Conditions	Time Period	Result
300°F	6,500 psig	3% CO ₂ / 97% CH ₄ / 50% Toluene / 50% Kerosene / 3% Brine	16 Hours	Pass
300°F	6,500 psig	1% H ₂ S / 3% CO ₂ / 96% CH ₄ / 50% Toluene / 50% Kerosene / 3% Brine	16 Hours	Pass

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