

IPC 1850 is a fusion-bond powder based on Cresol-Novolac chemistry with excellent temperature and corrosion protection characteristics.

IPC 1850 is a thick film modified epoxy built on Cresol-Novolac technology, with excellent corrosion resistance in high H₂S environments and an operating temperature of 300°F. IPC 1850 provides excellent protection against CO₂, heavy brines, and other corrosive elements found in oil and gas produced fluids. In addition, it provides a high abrasion resistance protection against mechanical wear and high fluid rates.

Additional Information:

Recommended Services:

- Salt water disposal (SWD)
- H₂O injection
- CO₂ injection (WAG)
- High H₂S environments
- High temperatures

Benefits:

- Excellent corrosion resistance
- High abrasion resistance
- Hydraulic improvement
- Excellent acid / caustic resistance

Characteristics:

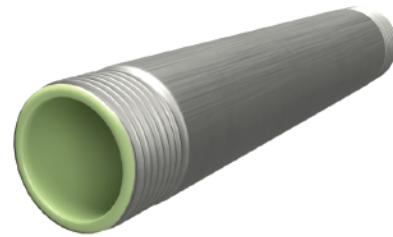
- Color: light green
- Generic type: Cresol Novolac
- Primer: phenolic
- Operating temperatures: 300°F (149°C)
- Thickness: 10-20 dry mils

Abrasion Resistance (Taber Abrasion Test | ASTM D4060):

- CS-17 wheel at 1,000g load at 1,000 cycles
- Average weight loss: 17.0 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 / Brine	16 Hours	Pass
275°F	5,000 psig	1% H ₂ S / 20% CO ₂ / 79% CH ₄ / 50% Toluene / 50% Kerosene / Brine	16 Hours	Pass
275°F	6,500 psig	3% H ₂ S / 3% CO ₂ / 10% CH ₄ / N ₂ Lime Mud	72 Hours	Pass
300°F	10,000 psig	3% CO ₂ / 97% N ₂ / Instant decompression	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.