

IPC CK-20

PRODUCT SPECIFICATIONS



IPC CK-20 is a fusion-bond powder based on Cresol-Novolac chemistry with excellent temperature and corrosion protection characteristics.

IPC CK-10 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 CK-20 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



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.