

# IPC CK-10

PRODUCT SPECIFICATIONS



**IPC CK-10** is a thermosetting thick-film fusion bonded epoxy powder for internal use on downhole tubulars with superior handling characteristics for CO<sub>2</sub> and secondary services.

**IPC CK-10** is a high performance, economic epoxy powder designed to protect injection strings in multiple applications in the oil and gas industry. Its superior flexibility allows for the application on large diameter pipe. IPC CK-10's versatility makes it an excellent choice for protecting tubing, increasing the life span of the well and lowering operating expenses.

## Additional Information:

### Recommended Services:

- CO<sub>2</sub> injection (WAG)
- Oil / water / gas production
- Salt water disposal (SWD)
- Flow lines
- Line pipe

### Benefits:

- Excellent flexibility
- Economic
- Excellent corrosion resistance
- Excellent adhesion

### Characteristics:

- Color: tan
- Generic type: epoxy
- Primer: phenolic
- Operating temperatures: 250°F (121°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: 61.0 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	5,000 psig	10% CO <sub>2</sub> / 90% CH <sub>4</sub> Hydrocarbons / Tap Water	16 Hours	Pass
300°F	6,500 psig	27% CO <sub>2</sub> / 73% CH <sub>4</sub> Hydrocarbons / 5% Brine	16 Hours	Pass
225°F	4,000 psig	Alternating 3X (WAG) a. 5% Brine-saturated H <sub>2</sub> S b. 100% CO <sub>2</sub>	6 Days	Pass
150°F	2,000 psig	3% CO <sub>2</sub> / 97% CH <sub>4</sub> / 5% Brine (H <sub>2</sub> S-saturated) Rocker arm test	28 Days	Pass

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