

# TK™ -805

TK™-805 is a medium thickness, powder applied, phenolic novolac coating formulated for environments to 350°F (177°C). The resin system utilized in TK-805 results in a coating with a high degree of chemical and temperature resistance, while producing an extremely smooth surface. Modifications in the resin system, in conjunction with the filler package, result in a coating with the highest degree of abrasion resistance found in the TK™ product line. This combination of properties produces a coating with superior hydraulic efficiency, a decrease in deposition of organic and inorganic materials, and an excellent resistance toward wireline wear.

## Specifications

Type	Phenolic Novolac
Color	Black
Temperature	350°F (177°C)
Pressure	To yield strength of pipe
Applied Thickness	6–13 mils (152–330 µm)
Primary Applications	Production tubing, water and CO <sub>2</sub> Injection, and disposal wells.
Primary Service	Oil and gas, sweet corrosion (CO <sub>2</sub> ), mild H <sub>2</sub> S and alkaline service to pH 12

### Stimulation Fluids:

When stimulation fluids are charged through coated tubing, there is generally little effect if the fluids are flushed completely through the tubular. However, some organic acids, caustic and solvents may have a detrimental effect on certain organic coating systems and should be evaluated prior to use. If stimulation fluids are left in the tubing, they can reach formation temperature and cause accelerated attack on the coating. A Tuboscope representative should be consulted when stimulation is contemplated.

### Sample of Testing Capabilities:

#### Thermal Analysis

- Differential Scanning Calorimeter (DSC)
- Thermomechanical Analysis (TMA)
- Thermogravimetric Analysis (TGA)

#### Spectroscopy

- Fourier Transform Infrared Spectrophotometer
- Electrochemical Impedance Spectroscopy (EIS)
- Contact Angle

#### Chromatography

- Gel Permeation Chromatograph (SEC)
- High Performance Liquid Chromatograph
- Gas Chromatograph

#### Additional Physical/Chemical Testing

- High Pressure Autoclaves
- Microscope Analysis
- Immersion Testing
- Flow Loop Analysis

#### Product Development

- Lab Compounding Capabilities

