TK™-340TC

As the energy industry continues to evolve, we are seeing significant growth in alternative energy research, and innovation in drilling & production techniques. To meet the needs of these challenging environments, cutting-edge coating technologies are required. For over 80 years, Tuboscope™ has led the industry in the development and supply of innovative coating products. TK™-Coatings not only increase tubular life, they also provide better economic efficiency to ensure the end user gets the most out of their assets.

Our ongoing effort to continually meet the changing needs of the industry has led to the introduction of TK-340TC. A low thermal conductivity coating, TK-340TC was designed to provide enhanced levels of insulative properties while retaining the same downhole performance our customers have come to expect. Reducing the thermal conductivity of the coating allows the end user the ability to better maintain fluid temperature within the pipe. As with all Tuboscope internal coatings, TK-340TC is designed to extend asset life while providing enhanced properties specific to individual goals and needs.

Specifications

Type	Novolac
Color	Green
Temperature	TK-340TC is designed to withstand all temperatures commonly encountered during the drilling process, provided that circulation is maintained.
Pressure	To yield strength of pipe
Applied Thickness	20–30 mils *(508–762 µm)*

Stimulation Fluids

When stimulation fluids are charged through lined 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 liner 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 liner. 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