

TK™-236

TK™-236 is a high temperature, high pressure modified, epoxy-novolac coating system with an advanced molecular structure. When applied in combination with its proprietary phenolic primer system, the result is a coating with excellent adhesion characteristics over a broad spectrum of oilfield production environments including oil, water, and sweet and sour gas. By providing high molecular crosslink density, TK-236 possesses very low gas permeability and is currently in use in gas production environments containing H₂S. Due to its smooth, high gloss, abrasion resistant surface finish, this material provides excellent flow improvement characteristics in both production tubulars and surface equipment.

Specifications

Type	Epoxy-Novolac (Powder)
Color	Green
Temperature	400°F (204°C)
Pressure	To yield strength of pipe
Applied Thickness	7-15 mils (178-381 μm)
Primary Applications	Production tubing, downhole equipment, surface equipment and line pipe.
Primary Services	High temperature, high pressure sweet and sour oil/gas wells, and CO ₂ tertiary oil recovery systems including pipelines.

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

