

OptiFrac Program

Total Solutions for Cold Section Fouling

Description and Use

OptiFrac is a comprehensive, high performance program effective in a full range of feedstocks, operating conditions and plant designs.

OptiFrac is designed to:

- Inhibit free radical polymerization fouling
- Decrease production losses
- Extend run lengths
- Reduce pressure drop constraints
- Increase efficiencies in heat transfer equipment and other process equipment

Program Components

The OptiFrac program consists of three major components:

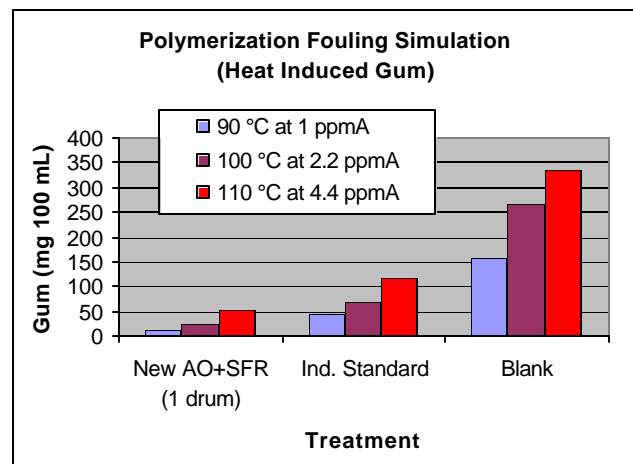
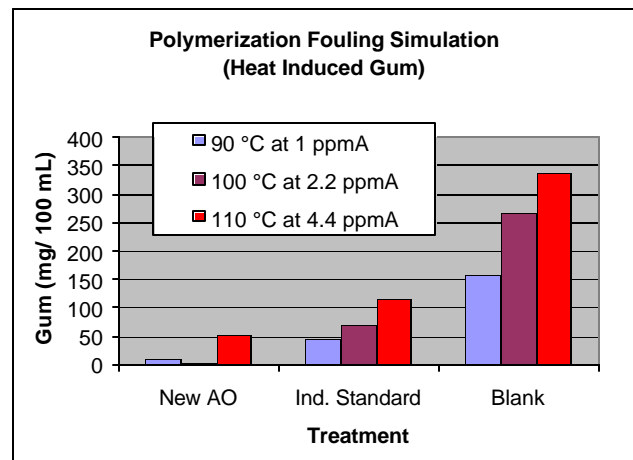
- Patented Chemistry
- Integrated Monitoring and Control
- Optimized Program Performance

Patented Chemistry

OptiFrac Chemistry consists of a combination of components designed for individual plants, conditions and feedstocks. It is effective in the presence or absence of oxygen and at temperatures up to 250°F (121°C).

Performance Data

OptiFrac contains a new, patented polymerization inhibitor which provides increased protection over existing treatment programs. Data at various temperatures is shown below.



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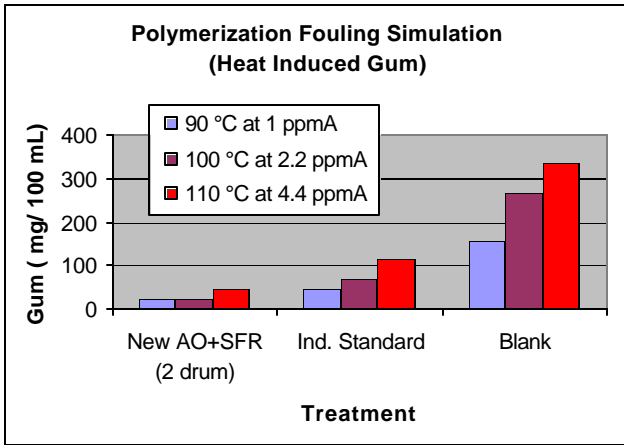
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Optimized Program Performance

Program performance is optimized to continuously provide the best possible results. Working in conjunction with the patented chemistry and the InSight program, optimization is done through rigorous residual testing. The testing results are then analyzed relative to process conditions and feedstocks so as to control chemical feed and selection.

Integrated Monitoring and Control

Monitoring and Control employs unique technology in the form of InSight, a program offering web based monitoring and prediction capabilities as well as standard automated packages.

