Tuned® Spacer V
Optimized Rheology Spacer Meeting the Challenge of High Bottomhole Temperatures

Tuned® Spacer V was developed for use at temperatures to 450°F (232.2°C). Tuned Spacer V is thermally stable and yields a non-settling fluid at service temperature. The thermal stability of the extreme-temperature synthetic polymer allows modification of both the rheological properties (Yield Point) and density of Tuned Spacer V at service temperature for project-specific well conditions and specific applications. By optimizing the rheological properties of Tuned Spacer V, the drilling fluid can be displaced while eroding the filter cake from the formation. This helps prepare the wellbore to receive cement to allow for bonding and effective zonal isolation.

Based on an extreme-temperature synthetic polymer, Tuned Spacer V offers technical advantages over traditional clay mineral or natural polymer spacers including very fast hydration and greater thermal stability.

Tuned Spacer V is not limited to drilling fluid (mud) type and acts similar to typical water-based spacers for wettability and compatibility, though the surfactant package should be verified whenever the mud is changed.

Benefits
- Fluid service temperature to 450°F (232.2°C)
- Thermally stable fluid helps provide better fluid efficiency
- Higher viscosity fluid at service temperature provides greater shear energy to erode drilling fluid from the wellbore
- Can be used with either water-based or oil-based mud
- Both the rheological properties and the density can be optimized for specific well requirements rather than fluid limitations
  - Yield point adjusted through percent volume of high-temperature synthetic polymer
  - Can be densified with standard weighting agents like Barite
- Faster hydration and greater thermal stability than traditional clay mineral or natural polymer spacers

Other Considerations
- Current clay-control agents for Tuned Spacer V are Clayfix™ II Plus and Clayfix™ III conditioners, clay-control materials

For more information on Tuned® Spacer V, please call your local Halliburton representative or email us at cementing@halliburton.com.