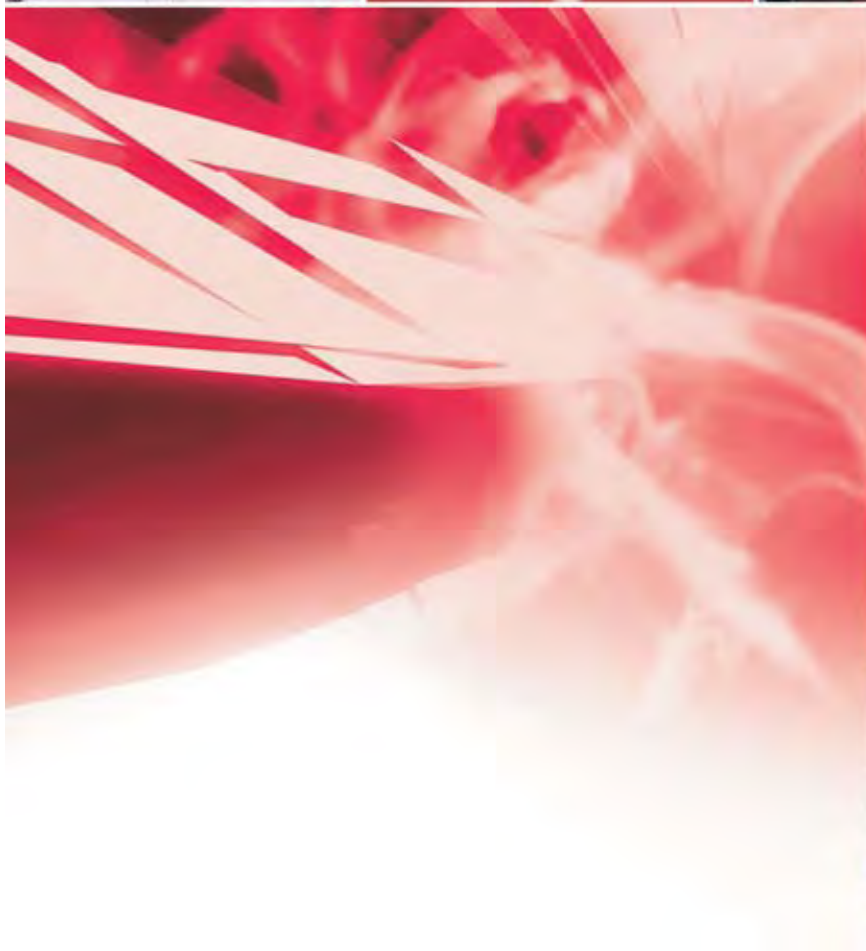




**Weatherford®**

# DynaFrac™ HT Fluids

Putting viscosity in a new light.



FracSure<sup>SM</sup>  
Service from  
Weatherford



# Weatherford's DynaFrac™ HT Fluids: Right on Viscosity



Consistent viscosity at every temperature level.



Ongoing research and development.

Clients know that hydraulic fracturing fluids are all about viscosity. Weatherford challenges convention by using a superior fluid system—and a new way of thinking.

## An Original Perspective

Weatherford's *DynaFrac* HT fluids deliver exactly the viscosity needed with lower gel loading. For example, a 30-pound *DynaFrac* system can typically achieve the viscosity of conventional 40-pound systems. This new approach saves the operator 25 percent in gel costs by shedding those 10 pounds.

Now that's putting viscosity in a new light.

## Controlled Crosslinking

*DynaFrac* HT is a versatile borate crosslinked frac fluid that uses a refined, low-residue, high-yield natural guar polymer and a borate crosslinker. Crosslinked time is fully controlled to minimize pumping friction pressure and job cost. *DynaFrac* HT provides extended crosslink times at elevated temperatures (70° to 325°F+, or 21° to 163°C+) and elevated gel loadings. It can be used with fresh water, KCl or light brines. Continuous-mix operations are preferred for *DynaFrac* HT.

## DynaFrac Advantages

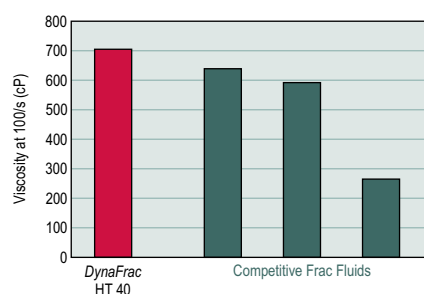
- Up to 20 percent more viscosity than conventional guar-borate systems
- Lower polymer loading as a result of higher crosslinked viscosity yields
- Minimized formation damage with lower polymer loadings
- Greater conductivity for higher production rates
- Enhanced crosslink stability for optimal frac geometry and more efficient proppant transport
- Complete suite of breaker packages for optimal cleanup

## Optimal Viscosity with Lower Gel Loading

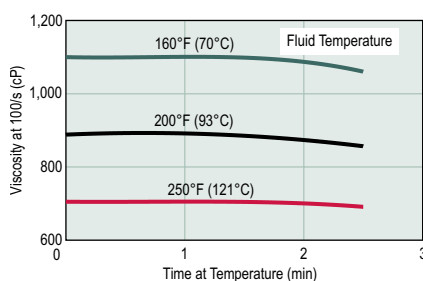
Pound for pound, dollar for dollar, DynaFrac™ fluids can outperform competitive fluids. These breakthrough fluids are made possible through specialized gel manufacturing methods and chemical combinations that include unique combinations of crosslinker and breaker technologies.

### Rheology of Competitive Frac Fluids

at 250°F (121°C) in 2% KCl

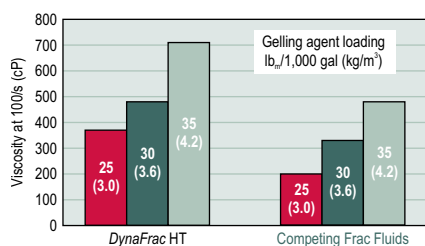


### Rheology of DynaFrac HT 40 in 2% KCl

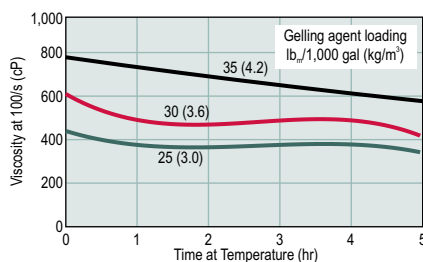


### Rheology of Competitive Frac Fluids

at 200°F (93°C) in 2% KCl



### Rheology of DynaFrac HT at 200°F (93°C) in 2% KCl



Extensive lab and field testing for all Weatherford chemical systems.



Competence, control and consistency on every job.

# DynaFrac™ HT Fluid

## FracSure<sup>SM</sup> Service from Weatherford

Weatherford's *FracSure* service is built on the solid foundation of our proven excellence in drilling, intervention, completion and artificial lift. This multidiscipline experience enhances reservoir understanding and recovery.

*DynaFrac* fluids spearhead a broad line of fluids and additives that facilitate reservoir-specific solutions. From skilled chemists and engineers to experienced service technicians, Weatherford provides consistent, on-time fracturing performance every time, on every job.

For more information about Weatherford's fracturing services, contact us at **[fracturing@weatherford.com](mailto:fracturing@weatherford.com)**. For regional contact information, visit **[weatherford.com/frac](http://weatherford.com/frac)**, and select "Regional Contacts" under "Contact Us."



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