

DynaFrac[®] LP – Fluids Additives

Combines multiple crosslinking and pH-buffering additives commonly used in crosslinked gels into a single, simplified system

Applications

- Hybrid fracture designs in horizontal well completions, including shale formations
- Effective proppant transport that leaves a clean wellbore for subsequent plug-and-perforation operations
- Carries proppant through the perforations, into the formation, and then degrades at formation temperature

Features and Benefits

- The low-polymer loading produces little residue in the formation.
- DynaFrac LP less breaker additive than conventional borate-crosslinked gels to achieve a well-broken fluid.
- DynaFrac LP combines and condenses multiple crosslinking and pH-buffering chemicals into a single, simplified formulation.
- DynaFrac LP reduces environmental footprint because fewer chemical totes are required on site.

Description

Weatherford DynaFrac LP is a low-polymer, borate-crosslinked fluid developed specifically for optimization of horizontal wells. DynaFrac LP requires less breaker additive to achieve a well-broken fluid than conventional borate-crosslinked gels. The resulting fluid is a more cost effective solution for low permeability formations.

Typical Physical Properties

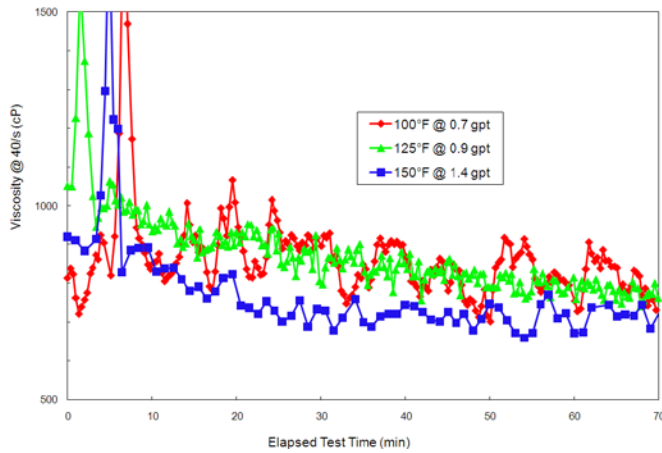
WXL-106L (crosslinker)

Appearance	Clean, amber liquid
pH	> 14.0
Specific gravity at 77°F (25°C)	1.36 to 1.38
Density at 77°F (25°C)	11.35 to 11.52 lb/gal (1.360 to 1.380 kg/L)

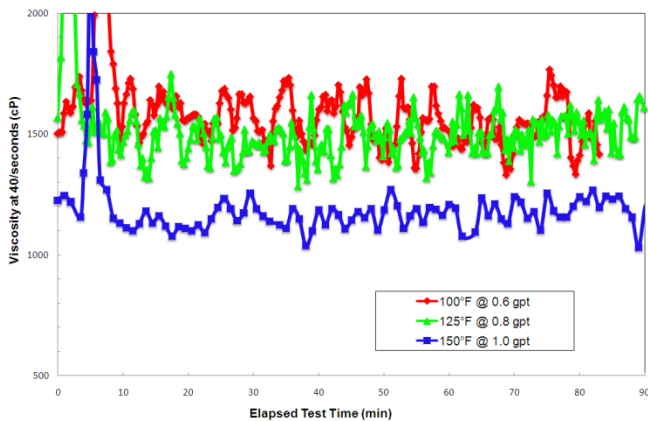


WGA-15L (gelling agent)

Appearance	Tan-colored, liquid suspension
Odor	Hydrocarbon-like
Flash point	152°F (67°C)
Specific gravity	1.05 to 1.06
Density	8.74 to 8.85 lb/gal (1.047 to 1.060 kg/L)



DynaFrac LP 15-lb gel viscosity at 100°F to 150°F (37°C to 65°C)



DynaFrac LP 20-lb gel viscosity at 100°F to 150°F (37°C to 65°C)

* DynaFrac is a registered trademark of Weatherford in the US.

