

Xanthan Openhole Gravel-Pack Carrier Fluid

Viscous gel for Alternate Path screens

APPLICATIONS

- Openhole completions implementing Alternate Path[†] technology screens
- Vertical, inclined, and horizontal wellbores
- Land, shelf, and deepwater developments

ADVANTAGES

- Works with monovalent and mixed monovalent brines with densities up to 12.5 lbm/galUS
- Stable up to 250 degF [121 degC]
- Provides high viscosity at low shear rates
- Provides efficient proppant transport
- Comes in slurry form
- Incorporates oxidative breakers to minimize gravel pack and formation damage
- Compatible with surfactants, filtercake breakers, biocides, and shale stabilizer (K240)

Xanthan gravel-pack gel

Xanthan openhole gravel-pack fluid provides rapid viscosity development in brines. It is an option for openhole completions implementing Alternate Path technology screens. The viscosified fluid system consists of just three components: a biopolymer slurry, a brine, and a breaker.

Compatible brines include

- potassium chloride brine
- sodium bromide brine
- potassium chloride/sodium bromide mixtures.

It can also be combined with surfactants, filtercake breakers, shale stabilizers, and biocides.

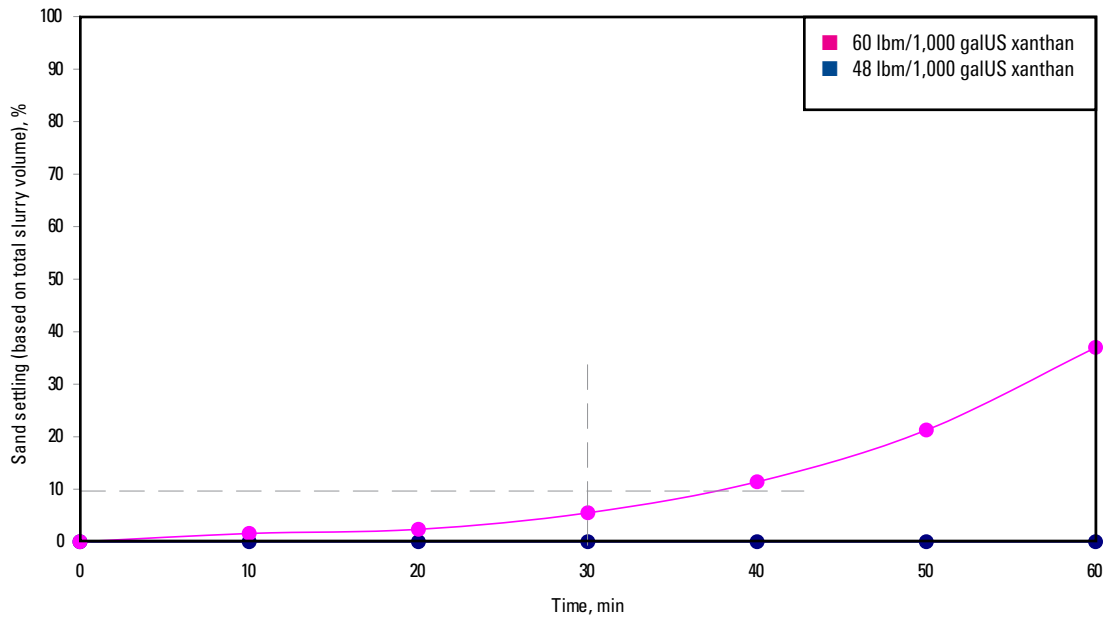
Controllable viscosity reduction via the use of breaker technology

Polymer and breaker loading is tailored for each job based on the bottomhole static temperature, brine density, and gravel-pack requirements. The viscosity of xanthan fluid can be reduced in a controllable manner. Once the well is gravel packed, the fluid completely breaks and returns to surface with minimal damage to the formation and gravel pack.

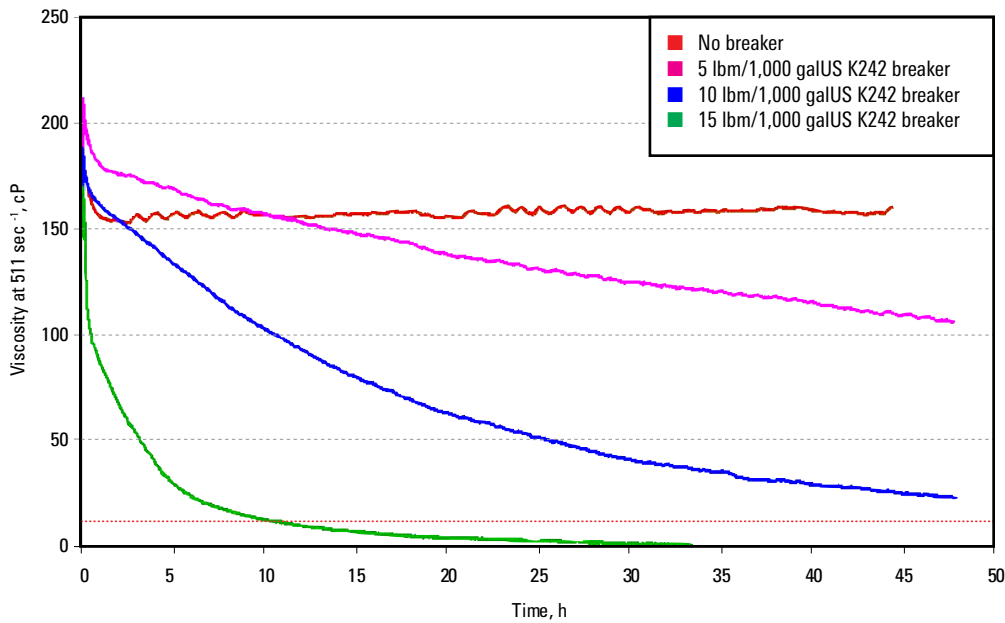
Simplified mixing process

The xanthan polymer is suspended as a slurry in a carrier fluid, making field mixing and hydration more efficient. Batch mixing eliminates the need for specialized equipment.

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Sand settling performance of 9.3 lbm xanthan fluid/galUS KCl at 180 degF (6 lbm of proppant added to 30/50 mesh ECONOPROP®).



Breaker performance at 180 degF (60 lbm/1,000 galUS xanthan fluid in 9.3 lbm/galUS KCl).

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