

PRODUCT DATA SHEET

Genesis AlphaMul 400™

Premium full-strength secondary emulsifier

High-temperature performance improvement



Description

Originally designed to solve high temperature issues in 400°F laterals in the Haynesville formation of Louisiana and Texas, **Genesis AlphaMul 400™** provides performance and cost benefits over competing secondary emulsifiers in all oil mud applications. A premium, full-strength product, **Genesis AlphaMul 400™** delivers improved fluid stability and emulsion strength at lower concentrations.

Application

Genesis AlphaMul 400™ is used to provide a combination of emulsification and oil wetting in inverse emulsion fluids. Designed primarily for conventional diesel oil-based inverts treated with lime and calcium chloride, **Genesis AlphaMul 400™** produces a tight emulsion with high stability at low additive concentrations. Combined with conventional primary emulsifiers and wetting agents, it can provide needed performance or desirable cost reductions.

When a leading Haynesville operator encountered fluid control issues that were resulting in unplanned events, Genesis Fluids LLC responded with the introduction of **Genesis AlphaMul 400™** after an extensive laboratory program conducted at temperatures of 400°F and higher. After aging at 400°F, typical field fluids would lose filtration control and exhibit unacceptably high viscosity and gel strengths.

Product benefits

After treating the field fluid with **Genesis AlphaMul 400™**, filtration control was restored, and fluid viscosity was acceptable at estimated bottom hole temperatures of 400°F and higher.

Based on successful applications in high temperature wells, the use of **Genesis AlphaMul 400™** was extended to less critical applications where it was found to improve the fluid properties at much lower treating levels than conventional additives. This resulted in lower costs and improved fluid stability.

Recommended treatment

In wells encountering high temperatures an initial treatment of 2 lb/bbl has proven effective in improving thermal stability of the viscosity, gel strengths, and filtrate.

After initial treatment, additions should be determined by changes in properties and estimated product concentrations. Typical treating volumes of **Genesis AlphaMul 400™** will be 25% to 50% less than with typical secondary emulsifiers.

Properties

Appearance	Dark amber liquid
Flash point	181 deg F
Viscosity.....	40,000 cP
Pour point.....	< 32 deg F
Specific gravity	0.96

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Handling and storage

Use normal precautions associated with mixing operations. Refer to product safety data sheet (SDS) for more information.

Packaging

Genesis AlphaMul 400™ is available in 275 gal totes.



SDS