



Technical Data Sheet

AI1 HT

Product Description

AI1 HT is a modified multipurpose emulsifier. It serves as the basic emulsifier and wetting agent in oil-based mud systems. It also gives improved thermal stability at high temperatures up to 400° F. GS MUL Ai1 HT is effective over a wide temperature range even in the presence of contaminants such as water, solids and cement. GS MUL Ai1 HT effectively reduces the adverse effects of water and drill solids contamination.

Applications: forms the basic brine-in-oil emulsion required for the oil-based mud system.

Treatments: Initial system formulations require 4 to 12 lb/bbl (11.4 to 34.2 kg/m³), depending on the density, oil: water ratio and required temperature stability. GS MUL Ai1 HT emulsifier requires excess lime to properly function; add 4 to 8 lb/bbl (11.4 to 23 kg/m³) on initial make-up and maintain an excess of at least 1 lb/bbl (3 kg/m³).

KEY BENEFITS

- **Compatible with all internal phase salinities.**
- **Is resistant to sea water and fresh water contaminants.**
- **Improves emulsion stability.**
- **Aids in controlling HTHP fluid loss.**

Key Properties

Color	Dark Brown/Black
Physical Form	Liquid
Sg	0.91 - 0.94 g/cm ³
Solubility	>200 degrees F
Packaging	55 bbl drum