

HT FLA-100

High Temperature Fluid Loss Additive for Water Based Mud



Product Description

HT FLA-100 is a high-performance, water-based fluid loss reducer designed for use in high-temperature, high-pressure, and ultra-deep drilling wells (both vertical and horizontal). This advanced polymer is blended with other components to effectively minimize fluid loss even under extreme conditions and maintains optimal performance in fresh water and high-salinity environments.

Key Advantages

- Free-flowing, white solid powder for easy handling and mixing
- Excellent resistance to divalent cations (Ca^{2+} , Mg^{2+}), ensuring stability in various water compositions
- Effective at low dosage levels (1–3%), providing cost-efficient fluid loss control
- Environmentally friendly composition, reducing the environmental impact of drilling operations
- Works effectively in both fresh water and high-salinity brines
- Enhances the overall performance of water-based drilling fluids in extreme conditions

Applications & Recommended Use

HT FLA-100 is specifically formulated to optimize water-based drilling fluids, offering superior fluid loss prevention in ultra-high temperature and high-pressure wells. It is particularly effective in applications where maintaining wellbore integrity and fluid stability is crucial.

This product is well-suited for use in:

- **Ultra-deep wells** – both vertical and horizontal
- **High-temperature, high-pressure (HTHP) formations**

- **Freshwater-based and high-salinity brine drilling fluids**
- **Low to medium permeability formations requiring precise fluid loss control**

Recommended concentrations of HT FLA-100 vary based on total hardness levels, solids content, and temperature conditions. Typical dosages range from **1–3% by weight**, depending on specific drilling fluid requirements.

Typical Properties

- Appearance: White solid powder
- Viscosity (1% solution): 50–100 cP
- Polymer concentration: >95%
- Maximum temperature tolerance: 190°C (374°F)

Packaging & Storage

HT FLA-100 is packaged in 25-pound bags for easy handling and transport. To ensure product integrity and performance, it is recommended to:

- Keep the product in its original packaging when not in use
- Store in a dry, cool, and well-ventilated area
- Keep container lids securely closed to prevent moisture absorption and contamination

