

# HT Thin-100

## High-Performance Thinner for Water-Based Drilling Fluids



### Product Description

HT THIN-100 is a **synthetic polymer** engineered to **optimize rheology and reduce viscosity** in **water-based drilling fluids**, even under **high-temperature, high-pressure (HTHP), and ultra-deep well conditions (vertical or horizontal)**.

This advanced thinner delivers **exceptional performance** in both **freshwater and high-salinity brine** environments, maintaining **stable fluid properties** across a broad temperature range.

### Key Benefits

HT THIN-100 is the ideal solution for precise rheology management, delivering efficiency and reliability in demanding drilling environments.

- Low Molecular Weight – Ensures effective thinning without excessive viscosity reduction.
- Multiple Formulations – Available in liquid or dry powder (pictured) form for flexible application.
- Excellent Calcium & Magnesium Tolerance – Performs well in high  $\text{Ca}^{2+}$  and  $\text{Mg}^{2+}$  environments.
- Minimal Impact on Rheology – Maintains stable drilling fluid properties.
- Eco-Friendly – Designed for environmental compliance.
- High-Temperature Stability – Performs reliably in conditions up to 375°F (190°C).

### Applications & Recommended Treatment

HT THIN-100 is designed for use in **water-based drilling fluids** to effectively control viscosity and maintain optimal rheology in **high-temperature, high-pressure (HTHP)**, and ultra-deep wells. It performs efficiently in both **freshwater and high-salinity brine systems**, ensuring **consistent fluid stability** even in challenging drilling conditions.

### Recommended Treatment Guidelines:

- **Dosage Range: 1–2 ppb**, depending on **total hardness levels, solids content, and temperature conditions**.
- **Optimized Fluid Performance:** Prevents excessive viscosity build-up while maintaining wellbore stability.
- **Controlled Application:** Avoid overtreatment to maintain proper fluid balance and performance.

HT THIN-100 is an efficient, environmentally friendly solution for precise rheology control in HTHP and ultra-deep well applications.

### Typical Properties

Property	Liquid	Powder (pictured)
Appearance	Light yellow	White
Polymer activity	40%	> 95%
Product viscosity (cP)	50-200	--

### Packaging and Storage

- 55Gal (180Kg) drums or 25-pound bags
- Keep HT THIN-100 in its original container when not in use.
- Store in a dry, cool, and well-ventilated area with lids securely closed.
- Protect from extreme temperatures to maintain product integrity.

