



H₂S Scavenger T

HYDROGEN SULFIDE SCAVENGER

Overview

H₂S Scavenger T is an amine-based, hydrogen sulfide (H₂S) scavenger for use in completion and drilling fluids.

Features

- Soluble in most commonly used completion brines.
- Reaction with hydrogen sulfide is non-reversible.
- Reaction product of H₂S Scavenger T and hydrogen sulfide is soluble in water and brines.

Benefits

- Effective at low concentrations.
- Scavenges hydrogen sulfide quicker than solid scavengers.
- Effective at scavenging free sulfide from brines ranging in density from 8.5 to 14.2 ppg.
- Not based on heavy metals.

Applicable Information

H₂S occurs naturally and is frequently encountered in oil and gas operations. H₂S is soluble in water, clear brine fluids (CBF) and hydrocarbons.

Operators face several major issues when completing or producing wells containing H₂S, including safety, environmental and regulatory requirements. The use of liquid H₂S scavengers is the most common method for the removal of H₂S from completion and drilling fluids.

TETRA H₂S Scavenger T may also be used for scavenging free sulfides to prevent the formation of H₂S.

Treatment dosage is based upon H₂S concentration, salinity, temperature among other factors.

Physical Properties

Appearance	Clear to pale amber
Odor	Amine
Specific gravity	1.12 @ (20°C)
Density ppg:	9.0
Pour Point °C	-40°C
Flash Point °C	52.4°C
pH	10-12
Water Solubility	Soluble

Recommended Treatment

Dependent on density of brine and amount of H₂S present. Treatments generally range from 0.5 - 50 gal/100 bbl for densities between 8.5 and 14.2 ppg and H₂S content from 5 - 100 ppm. See attached treatment dosage matrix.

Note: Fluids with densities and/or H₂S levels outside of the provided matrix will require specific testing.

When possible, the treatment should be verified with laboratory testing of the proposed completion or drilling fluid formulation. Consult a TETRA representative to discuss specific applications.

Safety and Handling

Non-hazardous material. Ensure material is stored in area with adequate ventilation. Avoid skin and eye contact, inhalation, or ingestion. For eye contact, flush with large quantities of water. For skin contact, wash with soap and large quantities of water. Refer to Safety Data Sheet for specific details.

