



Drilling Fluids, Inc.

Commercial Chemical

Zinc Oxide

Description

Zinc Oxide (ZnO) is used as a Hydrogen Sulfide (H₂S) scavenger.

Uses

Zinc Oxide is used to convert H₂S into non toxic ZnS and water in contaminated drilling fluid.

Benefits

Zinc Oxide irreversibly bonds to the H₂S. This prevents the treated H₂S from being released out of the drilling fluid.

Treatment

Zinc Oxide is added at 1-2 ppb through the hopper depending on level of expected contamination. Testing may be done for sulfide capture ability using Na₂S and a Sulfide test kit..

Function

The Zinc binds to the sulfur releasing the hydrogen and oxygen in the form of water.

Typical Physical Properties

Physical appearance.....White Powder
Specific Gravity5.6

Safe Handling Recommendations

Utilize normal precautions for employee protection when handling chemical products. Use of appropriate respirator, gloves, goggles, and apron is recommended for employee comfort and protection. See Material Safety Data Sheet (MSDS) for this product prior to use. Spills may be a slip hazard.

Packaging

Zinc Oxide is packaged in 50 lb. (22.7 kg) multiwall bags.