Product Information

Zinc Carbonate

GENERAL DESCRIPTION

Zinc Carbonate ($ZnCO_3$) is used as a hydrogen sulfide scavenger in both water and oil base drilling fluids.

Zinc Carbonate is primarily utilized as a hydrogen sulfide scavenger in drilling fluids.

FEATURES AND BENEFITS

Zinc Carbonate reacts with Hydrogen Sulfide (H_2S) to form Zinc Sulfide (ZnS) which has extremely low solubility in water.

The pH of the drilling fluid should be maintained above a range of 10.5, or the possibility of liberating the Hydrogen Sulfide exists.

At pH higher than 11.0, Zinc Carbonate will dissociate rapidly releasing Zinc ions, which will result in flocculation of fresh water drilling fluids.

This can be avoided by parallel treatment with Lime; 0.25 kg Lime of every kg of Zinc Carbonate.

RECOMMENDED TREATMENT

The amount of Zinc Carbonate required is normally 3.0-6.0 kg/m^3, depending on the severity of the expected sour gas. Typically about 1 kg/m^3 will treat out 256 mg/L H_2S in the pH range of 9.0-11.0

TYPICAL PHYSICAL PROPERTIES

Appearance	Fine white powder
Specific Gravity	4.4
Zinc Content	54% min.
Moisture Content	5% max.

HANDLING

Zinc Carbonate is not a controlled product using the WHMIS classification.

Refer to MSDS information for specific precautions and handling.

AVAILABILITY

Zinc Carbonate is available in 22.68 kg and 25 kg bags from HiTech Fluid Systems Ltd.