



## ZINC CARBONATE

### DESCRIPTION

Zinc Carbonate ( $ZnCO_3$ ) is used as a scavenger of Hydrogen Sulfide.

### PROPERTIES

<b>Physical</b>		<b>Chemical</b>	
Appearance:	White crystalline powder	Type:	Chemical Compound
Specific Gravity:	4.4	Solubility:	Soluble >0.1% (water)
Bulk Density:	Not available	pH:	Not available
Moisture Content:	Not available	Microtox:	=36% @ (14.0 kg/m <sup>3</sup> )
Flash Point:	Not flammable		

### APPLICATION

Zinc Carbonate is used as an H<sub>2</sub>S scavenger in water based drilling muds.

As a pre-treatment, concentrations vary from 6.0-14.0 kg/m<sup>3</sup> depending on the severity of the expected sour gas. To effectively control the carbonate added, add approximately 0.25 kg of lime for every kilogram of Zinc Carbonate added to the mud. Approximately 1.0 kg/m<sup>3</sup> of Zinc Carbonate is required to remove 256 mg/L of dissolved H<sub>2</sub>S.

Zinc Carbonate can cause rheological and alkalinity problems in bentonite based mud systems and on wells where there are elevated mud temperatures.

### MIXING AND HANDLING

Zinc Carbonate can be added directly to the mud hopper. It is advisable to use a dust mask and eye protection while mixing all powdered products.

<b>WHMIS:</b> Not controlled	<b>TDG:</b> Regulated: (see MSDS)	<b>PACKAGING:</b> 25 kg sack
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