



SALT

DESCRIPTION

Common salt of >99% purity and whose chemical composition is sodium chloride, NaCl.

PROPERTIES

Physical		Chemical	
Appearance:	White crystalline	Type:	Inorganic salt
Specific Gravity:	2.2	Solubility:	100% (water)
Bulk Density:	1200-1280 kg/m ³	pH:	Not available
Moisture Content:	<0.1%	Microtox:	Not applicable
Flash Point:	Not available		

APPLICATION

Salt finds application in salt saturated mud systems, invert oil emulsions, work over and completion fluids.

For drilling thick salt sections the mud is usually "saturated" with sodium chloride and or other salts to prevent washout. Complete saturation is dependent upon temperatures and usually occurs at a concentration of about 320.0 kg/m³ at room temperature.

In the absence of other chloride salts, the sodium chloride concentration can be approximated from the calculation:

$$\text{mg/l NaCl} = 1.65 \times \text{mg/L Cl}$$

In invert oil emulsions sodium chloride is sometimes used as a salinity source to provide an activity balance between the mud's water phase and the formation water.

MIXING AND HANDLING

Salt mixes and dissolves readily in water. It is added to the mud system through the mud hopper. It is advisable to use a dust mask and eye protection while mixing all powdered products.

WHMIS: Not controlled	TDG: Not regulated	PACKAGING: 40 kg sack
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