

## SODIUM CHLORIDE-DRILLING GRADE- CERTIFICATE OF ANALYSIS

98.50% PURITY-SALT

<u>Sr. No.</u>	<u>Parameters</u>	<u>Unit</u>	<u>Standard</u>
1	Appearance		White Crystalline free flow & free from Clay girt, etc -impurities
2	Particle size		
	Passing trhr. 850 Mic	%	99 + 1
	Passing trhr.100 Mic	%	05 + 1
3	Moisture	%	Max 0.30
4	Water Insoluble	%	Max 0.15
5	Matter Soluble other than Sodium chloride	%	Max 1.0
6	Sodium Chloride (as a NaCl)	%	Min 98.5
7	Calcium (As a Ca <sup>++</sup> )	%	Max 0.15
8	Magnesium (As a mg <sup>++</sup> )	%	Max 0.10
9	Sulphate (As a So <sub>4</sub> <sup>---</sup> )	%	Max 0.60
10	Alkalinity (As a Na <sub>2</sub> CO <sub>3</sub> )	%	Max 0.15
11	Lead (As a Pb )	PPM	Max 2
12	Arsenic (As a As )	PPM	Max 1
13	Anticaking Agent	PPM	Max10
14	Iron (As a Fe)	PPM	Max 50
15	pH ( 5% Aqua Sol'n)		6.5 to 7.5
16	Black Particle	Nos	15/ Per Kg

# Earth Origins

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4	Water Insoluble	%	Max 0.05
5	Matter Soluble other than Sodium chloride	%	Max 1.0
6	Sodium Chloride (as a NaCl)	%	Min 99.5
7	Calcium (As a Ca <sup>++</sup> )	%	Max 0.05
8	Magnesium (As a mg <sup>++</sup> )	%	Max 0.03
9	Sulphate (As a So <sub>4</sub> <sup>--</sup> )	%	Max 0.20
10	Alkalinity (As a Na <sub>2</sub> CO <sub>3</sub> )	%	Max 0.15
11	Lead (As a Pb )	PPM	Max 2
12	Arsenic (As a As )	PPM	Max 1
13	Anticaking Agent	PPM	Max10
14	Iron (As a Fe)	PPM	Max 20
15	pH ( 5% Aqua Sol'n)		6.5 to 7.5
16	Black Particle	Nos	10/ Per Kg

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## SODIUM CHLORIDE-DRILLING GRADE- CERTIFICATE OF ANALYSIS

Description: SALT is sodium chloride, with the chemical formula NaCl. It may come in a sack or a super sack as a powder or mixed with water in various concentrations up to 10.0 pounds per gallon .

Uses: SALT is used as an inhibitor to control active shale and clay dispersion. SALT can be used in polymer mud to minimize the formation of gas hydrates. SALT is used to retard the dissolution of massive salt sections and salt stringers. SALT can be used to balance the activity of the water phase in oil mud. SALT can be used as a weighting material up to 10.0 pounds per gallon plus additional weight/density can be obtained by using finely ground SALT in a saturated solution. In some applications, SALT is used as a bridging agent for lost circulation in saturated salt systems.

Benefits: SALT is an inexpensive clear fluid additive for increasing density and providing chlorides for inhibition. When drilling massive salt sections, SALT is added to saturation so that salt from the formation will not be dissolved and washed away. Sodium based oil based mud are sometimes preferred although GEO MUL systems can also utilize calcium chloride. When used as a lost circulation material SALT can be removed with water to lower the concentration below the saturation point.