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## SALT

**DESCRIPTION** Granular, common salt of 96% purity and whose chemical composition is sodium chloride, NaCl.

Physical and Chemical Properties:

Specific Gravity: 2.165  
Solubility in Water: 36 g/100 ml (20 C)

Typical Particle Size:

ASTM Screen <u>Size (Microns)</u>	<u>Percent Retained</u>
20 (850)	0
30 (600)	0 - 10
40 (425)	35 - 55
50 (300)	30 - 50
60 (230)	5 - 15
Pan	3 - 10

**APPLICATION** Salt finds application in salt saturated mud systems, invert oil emulsions, workover and completion fluids.

For drilling thick salt sections the mud is usually "saturated" with sodium chloride. Complete saturation is dependent upon temperatures and usually occurs at a concentration of about 320 kg/m<sup>3</sup> at room temperature.

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

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

*NOTE: See disclaimer for supplier responsibility.*

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**PRODUCT DATA**

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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.

**HANDLING**

Salt mixes and dissolves readily in water. It is added to the mud system through the mud hopper.

**WHMIS**

Not Controlled

**TDG**

Not Regulated

**PACKAGING**

40 kg sack

*NOTE: See disclaimer for supplier responsibility.*