



## Product Information

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### Salt

#### DESCRIPTION

Salt with a minimum 98.8% purity and is primarily comprised of Sodium Chloride.

#### FEATURES AND BENEFITS

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

When drilling thick salt formations, the mud is saturated with salt to prevent wash-outs. At 22°C, a concentration of 320kg/m<sup>3</sup> is required to completely saturate a system. This will vary with temperature.

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

#### RECOMMENDED TREATMENT

The approximate Sodium Chloride concentration can be calculated by using the formula:

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

#### TYPICAL PHYSICAL PROPERTIES

|                  |                            |
|------------------|----------------------------|
| Appearance       | white, crystalline         |
| Specific gravity | 2.2                        |
| Bulk Density     | 1200-1280kg/m <sup>3</sup> |
| Moisture Content | <0.1%                      |
| Flash Point      | n/a                        |

#### Chemical Analysis Limits:

|                     |          |
|---------------------|----------|
| Sodium Chloride     | 98.80%   |
| Potassium Chloride  | 1.00%    |
| Calcium Sulphate    | 0.07%    |
| Calcium Chloride    | 0.05%    |
| Magnesium Chloride  | 0.03%    |
| Sodium Ferrocyanide | <13mg/kg |

#### Sieve Analysis:

|              |          |
|--------------|----------|
| 100% passing | 1.250 mm |
| 90 to 100%   | 0.630 mm |
| 5 to 55%     | 0.315 mm |
| 0-1%         | 0.160 mm |

#### HANDLING

Salt is not a controlled product under the WHMIS classification.

For specific precautions and handling see MSDS information.

#### AVAILABILITY

Salt is packaged in 25kg sacks and is available from HiTech Fluid Systems Ltd.