POTASSIUM CHLORIDE (POTASH)

DESCRIPTION

Potassium Chloride (KCl) is an odourless white crystal, which forms a neutral salt solution with water. Potash purity is expressed as percent K_2O.

63% K_2O = 100% KCl

PROPERTIES

Physical		Chemical	
Appearance:	White crystalline powder	Type:	Salt
Specific Gravity:	1.98	Solubility:	Soluble (water)
Bulk Density:	Varies with grade	pH:	5.4-8.6 (5% solution)
Flash Point:	Not flammable	Microtox:	Not applicable

APPLICATION

Generally used to provide Potassium (K^+) ions in shale inhibiting drilling muds. The K^+ ion provides a strong bonding ion between the clay platelets thus inhibiting the swelling of shales. Use in concentrations of 30.0-150.0 kg/m^3.

The K^+ ion is absorbed onto the clay and is thus depleted from the system. The rate of absorption is related to the reactivity of the shale.

10 kg/m^3 KCl = approx. 5250 mg/l K^+

MIXING AND HANDLING

Potash mixes readily in water and can be mixed directly through the hopper. Avoid breathing dust while mixing. It is advisable to use a dust mask and eye protection while mixing all powdered products.

WHMIS: Not controlled	**TDG:** Not regulated	**PACKAGING:** 25 kg sack