

CAUSTIC SODA

GENERAL INFORMATION

CAUSTIC SODA is composed of high purity sodium hydroxide primarily used in all water base muds to control the pH.

TYPICAL PROPERTIES

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| Appearance | Flakes |
| Type | Sodium Hydroxide (NaOH) |
| Purity | 99% |
| Solubility | Highly soluble in water |
| pH (1% solution) | 14 |

APPLICATION

CAUSTIC SODA is a high purity grade of sodium hydroxide, hygroscopic compound, primarily used in all water base muds to control and increase the pH up to 14.

CAUSTIC SODA also controls and increases the hydration of bentonite clays and in flocking the salt gel aggregates thus increasing the viscosity. In dispersed mud systems, CAUSTIC SODA enhances the solubility of lignites, FCL and tannins where it forbids their decomposition at high temperature and foaming tendencies.

CAUSTIC SODA precipitates hydrogen sulphide (H₂S) gas forming insoluble sodium sulphide (N₂S) as far the pH of the mud system is controlled above 9.5-10 until further treatment with sulphide scavenger, where CAUSTIC also helps in corrosion control.

PRODUCT TREATMENT

CAUSTIC SODA is a very strong alkali hygroscopic compound. It should not be mixed on rig site through the hopper. CAUSTIC SODA should be diluted with water in a chemical barrel by adding CAUSTIC SODA to the barrel containing water. NEVER pour water on CAUSTIC SODA. The CAUSTIC SODA solution then should be added slowly to the mixed mud system.

The recommended dosage of CAUSTIC SODA depends on type of mud system, components and required final properties; it is usually mixed as 0.24-1.99 ppb.

SAFETY PRECAUTIONS

CAUSTIC SODA is a very strong alkali compound and solution. It should always be handled and mixed while wearing facemask, gloves and protective clothing. In case of eye or skin contact, flush and wash with plenty of fresh water, then consult a physician.

PACKAGING

CAUSTIC SODA is packaged in 25 kg bags.