Product Information

Shure Shale

GENERAL DESCRIPTION

Shure Shale is the ammonium salt of an organic acid. It is a patented product. Chemically it is referred to as methaninium.

FEATURES AND BENEFITS

Shure Shale is a specialized liquid product designed specifically for use as a replacement for bagged potassium chloride (KCl).

This product provides excellent shale and clay control without the logistics, handling and mixing problems associated with large volumes of bagged KCl. Shure Shale is compatible with all gels, crosslinkers and breaker systems typically utilized in well drilling, stimulation and work over operations. Shure Shale will not affect fluid pH and being non-surface active doesn't adversely affect formation wetability or create any type of a foaming problem. Shure Shale may be used in fresh water, acid or brine systems and will not hinder the performance of acid corrosion inhibitors. While the product does not contain any potassium, Shure Shale is composed or a sophisticated, mildly cationic complex that functions as KCl to control shale and clay hydration. Unlike KCl, Shure Shale may be easily utilized in "on the fly systems" to eliminate premixing and leftover brine disposal problems. If i Shure Shale is mixed in fresh water and no salts are added the fluid can be easily disposed of without adverse effect on the environment. A 2% functional equivalent solution of KCl contains only 165mg/L chloride ion. This significantly reduces the risks associated with the use of KCl fluids.

RECOMMENDED TREATMENT

Shure Shale is typically applied at a concentration of 1-5L/m^3 depending on the % KCl being replaced, shale / clay quantities present in the well bore and the operation being preformed. Load rate of 1L of Shure Shale per m^3 of H_2O will provide a functional equivalent concentration of 2% KCl.

Laboratory evaluations and field experience suggests that Shure Shale works best in the presence of PHPA. There is a positive synergy effect when both are used together. We recommend using Shure Shale and a PHPA i.e. Hyperdrill 247 RD in a 50:50 ratio.

Field practices suggest that 4-5L/m^3 of Shure Shale and 4-5kg/m^3 of Hyperdrill 247 RD provide excellent shale inhibition.

Itcan be used at higher concentrations in the absence of PHPA. Use 10-12L/m^3 will provide excellent shale inhibition by itself.

TYPICAL PHYSICAL PROPERTIES

Form, @ 21.1°C	Liquid
Density, kg/m^3	1.018
Flash Point, °C	>93.3
Pour Point, °C	-40
pH	7.5 – 8.0
Solubility, Fresh Water	Soluble
High TDS Brine	Soluble
Hydrocarbon	Insoluble

HANDLING

As with any individual chemical, avoid contact, flush exposed area with copious amounts of water. An MSDS outlining proper handling is available upon request.

AVAILABILITY

Shure Shale is available in 18.93L pails from HiTech Fluid Systems Ltd.