



Drilling Fluids, Inc.

DESCRIPTION

USES

BENEFITS

TREATMENT

FUNCTION

**TYPICAL PHYSICAL
PROPERTIES**

**SAFE HANDLING
RECOMMENDATIONS**

PACKAGING

SAPP

SAPP is Sodium Acid Pyrophosphate, with a chemical formula of $Na_2H_2P_2O_7$.

SAPP is used to treat cement-contaminated mud. **SAPP** is used as a lowcost, fast-acting dispersant in low-weight freshwater drilling fluids. **SAPP** is effective at low concentration levels. **SAPP** is effective in controlling free calcium in low pH drilling fluids. **SAPP** is utilized as a clay dispersant to reduce bit balling.

Used as a calcium scavenger and pH reducer, **SAPP** may be added to combat cement contamination, usually in combination with BICARBONATE OF SODA. **SAPP** may be used in low-weight freshwater drilling fluids to reduce viscosity and gels and to reduce the hardness level. After drilling cement and treating with BICARBONTE OF SODA, additional thinning can be achieved with **SAPP** with out risking our treatment and bicarbonte contamination.

SAPP should be added in small incremental amounts of as little as 0.1 ppb to reduce viscosity and gels. For cement contamination, **SAPP** additions will vary with the amount and hardness of the cement. Normally, **SAPP** can be added in concentrations of 0.5 to 1.0 ppb for each 1 ppb of excess lime. Major adjustments to pH are more effectively accomplished with Phosphoric Acid or Citric Acid.

The acid portion of **SAPP** provides a source of free hydrogen ions to combine with free hydroxyl ions producing water as a byproduct. The phosphate portion of **SAPP** acts as a dispersant. Phosphate dispersants are effective at low temperatures and concentrations. High temperature can convert phosphates to orthophosphates which act as a viscosifier.

Appearance.....white crystalline powder
pH (1% solution).....4.2 Bulk
density.....61.9

Utilize normal precautions for employee protection when handling chemical products. Use of appropriate respirator, gloves, goggles, and apron is recommended for employee comfort and protection. See Material Safety Data Sheet [MSDS] for this product prior to use.

SAPP is packaged in 50 pound and 100 pound multi-wall bags.

GEO Drilling Fluids, Inc.

1431 Union Avenue
Bakersfield, CA 93305

1-800-GETSGEO

[661]325-5919

geodf@geodf.com

For more info visit:

geodf.com

