
PRODUCT DESCRIPTION

DAP-1A is an economical yet effective anionic drilling fluid viscosifier and friction reducer. It will reduce friction by as much as 60% or more, depending on the pipe dimensions, pressures and flow rates. DAP-1A is a high molecular weight polymer that promotes laminar flow of the fluid at or near the pipe wall, thereby reducing or entirely eliminating turbulent flow. An increase in the laminar flow characteristics of the fluid produces a decrease in the pumping or “friction” pressure. DAP-1A is most effective in fresh water, 2% KCl or fresh water treated with KCl Substitutes. DAP-1A should not be used in acid due to its incompatibility in spent acid and incompatibility with cationic corrosion inhibitors.

RECOMMENDED APPLICATION

Prior to use stir the container to ensure best results. Over time the product may settle out in the container. This is normal and does not affect product quality. Simply mechanically agitate to redisperse. Do not air stir as the moisture in the air will hydrate the polymer prematurely and a very viscous or semi-solid mass will result. DAP-1A is manufactured for use in fresh water, 2% KCl and fresh water with KCl Substitutes. It may be applied at temperatures up to 300°F. DAP-1A may be used in higher concentration or other types of brines as well, however compatibility and performance should be confirmed. May be batch mixed or added directly on the fly. Normal use rate to increase aqueous drilling fluid viscosity is 0.4 to 2 ppb. For friction reduction use rate is 0.2 to 0.4 ppb.

COMPATIBILITY

DAP-1A is anionic. It is compatible with nonionic and other anionic additives such as drilling and completion surfactants. It should not be used with cationic additives unless the compatibility is confirmed by testing.

TYPICAL PHYSICAL PROPERTIES

Form:	Liquid
Chemical Family:	Synthetic Polymer
Color:	Milky white
Solubility:	Water, acid, brine
Odor:	Hydrocarbon
Wt. per Gal.:	7.769 lbs.
Charge:	Anionic
Flash Point:	100 ⁰ F (37.8°C)

HANDLING/STORAGE

DAP-1A is a flammable liquid. Store away from heat, sparks and open flame. Keep container tightly sealed to prevent evaporation, contamination, and explosion hazards. Promptly remove any spilled material as it is extremely slippery, especially when wet. Rinse spill with copious amounts of water. It can cause eye, skin and respiratory tract irritation by contact. Use only with adequate ventilation. Do not breathe vapors, especially in a confined area. Recommend use of chemical splash goggles and rubber gloves during handling. Refer to the Material Safety Data Sheet (MSDS) for handling and hazard data.

PACKAGING

DAP-1A is available in 5 gallon container, 55 gallon drums and 330 gallon tote tanks.