

Aluminum Stearate

Description

Aluminum Stearate is non-water soluble surface-active agent used primarily for defoaming of water-based drilling fluids. It is a fine white powder with a slight fatty odor. It is an aluminum salt of stearic acid.

Applications

Aluminum Stearate is an effective defoamer for water based drilling fluids. Aluminum stearate reduces the surface tension of water based drilling fluids enhancing the breakout of gas and air bubbles, minimizing the foaming tendency of the drilling fluid.

Features and Benefits

- Very effective as a defoamer at low concentrations for virtually all types of water-based muds.
- Minimal effect on rheology
- Easily prepared and added with materials available at the rig site.
- Widely available, economical defoaming agent.

Typical Properties

Appearance	Powder
Color	White
Specific Gravity	1.01
Melting Point	300°F (150°C)
Solubility in water (30°C)	Not soluble

Recommended Treatment

To achieve the best results, Aluminum Stearate should be mixed with diesel, low-toxicity mineral oil or a synthetic base fluid and slowly dripped into the system. Normally, .05 to 0.1 lb/bbl gives adequate defoaming results. Mix 1-2 viscosity cups of Aluminum Stearate per 5-gal diesel, low-toxicity mineral oil or synthetic base fluid prior to adding to the drilling fluid.

Safety and Handling

Prior to using this product, refer to the safety data sheet for information on use of personal protective equipment, safe handling, storage, transport, and disposal.

Packaging

Aluminum Stearate is available in 50 lb (22.7 kg) and 55 lb (25 kg) bags.

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