

JMN SPECIALTIES, INC.

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PRODUCT BULLETIN

DRILLING DETERGENT 4110

Drilling Surfactant

General Description

DRILLING DETERGENT 4110 is a water soluble drilling additive that is non-toxic, low-foaming, non-flammable, and biodegradable. **DRILLING DETERGENT 4110** contains a combination of proprietary additives that is formulated to reduce the interfacial tension between water and soils in the drilling fluid. **DRILLING DETERGENT 4110** will also inhibit the hydration of shale particles by satisfying the unbalanced ionic charges in the clays and by forming a *protective film* that blocks entry of water into the shale. This *protective film* prevents hydration of the shale which helps reduce bit balling, collar plugging, sloughing, enlarged hole and hole-fill on trips. **DRILLING DETERGENT 4110** helps maintain a thin, tough wall cake, and **DRILLING DETERGENT 4110** is not affected by sodium content in the drilling fluid.

Application

DRILLING DETERGENT 4110 should be added continuously at the suction pit while drilling to control “gumbo” formation. Normal use for preventative action is 1% by volume. It is normal to see a little foam at the shakers, no foam is an indication of low activity in the drilling mud.

Physical Properties

Color	Light Green
Specific Gravity	1.01 - 1.03
pH	8 - 9.5
Freeze Point	32° F

Availability

DRILLING DETERGENT 4110 is available in UN approved 5 gallon pails, 55 gallon drums, 350 and 550 gallon tote tanks, and bulk quantities.

Handling

Observe warning label on containers. Normal precautions for industrial chemicals apply.