



Drilling Fluids, Inc.

**Petro Drill Oil Base
Product**

Description

LVT 200

LVT 200 is the base oil for formulating low toxicity oil based drilling fluid systems. LVT-200 effectively combines high performance properties with exceptionally low acute toxicity properties. LVT 200 possesses a flash point >200°F with less than 0.5% aromatics.

Uses

LVT 200 is used as a low viscosity base oil for the formulation of PetroDrill systems. It is also used as a base oil for spotting fluids in water based drilling fluids. Occasionally LVT 200 is used in water based drilling fluid to improve lubricity.

Benefits

LVT 200 is a lower viscosity oil than diesel for the formulation of invert emulsion drilling fluids. The toxicity of LVT 200 is low enough to be used in most places where environmental concerns allow chrome free, low pH, water based drilling fluids. The low viscosity allows higher solids content while maintaining acceptable flow properties.

Treatment

LVT 200 is used in oil/water ratios from virtually all oil to 60/40 oil/water ratio formulated systems. It is used in these systems for dilution to reduce viscosity or to control density. As a spotting fluid, 1-2 gallons of NIS surfactant per bbl of LVT 200 is a normal treatment.

Function

LVT 200 provides a continuous (external) phase for drilling fluids, which is incapable of causing the swelling of shales or clays. In spotting fluids LVT 200 is the carrier for the emulsification products which dehydrate filter cake, shrinking it, for stuck pipe treatment.



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**Typical Physical
Properties**

**Safe Handling
Recommendations**

Packaging

LVT 200 (continued)

Physical Appearance.....	Clear, colorless hydro-carbon liquid.
Specific Gravity.....	0.82
Hygroscopic.....	No
Flash Point.....	200° F
API Gravity	41.5
Aniline Point.....	166° F

Storage and transportation must be in accordance with federal, state, and local regulations. Additional information on safety, storage and handling is included in the Material Safety Data Sheet

Delivered by vacuum truck, stored on location in appropriate tanks. Also available in drums and totes where applicable. Experience has shown that both nitrile rubber (e.g., "Buna-N") and fluoroelastomers are compatible with LVT 200.