



Drilling Fluids, Inc.

**Petro Drill Oil Base Product**

**Description**

**DIESEL**

DIESEL is a complex mixture of hydrocarbons with carbon numbers in the range C9 and higher. Diesel fuel may be dyed (red) for tax purposes. It may contain a multifunctional additive.

**Uses**

DIESEL is the base oil for formulating based drilling fluid systems.

**Benefits**

DIESEL is used as a 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 DIESEL is used in water based drilling fluid to improve lubricity.

**Treatment**

DIESEL 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 DIESEL is a normal treatment.

**Function**

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

**Typical Physical Properties**

Appearance.....Clear, colorless hydrocarbon liquid  
Specific Gravity.....0.82  
Flash Point.....156°F  
API Gravity.....41.5°F  
Aniline Point.....151°F



Drilling Fluids, Inc.

**Petro Drill Oil Base  
Product**

**Safe Handling  
Recommendations**

**Packaging**

## **DIESEL (continued)**

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 DIESEL