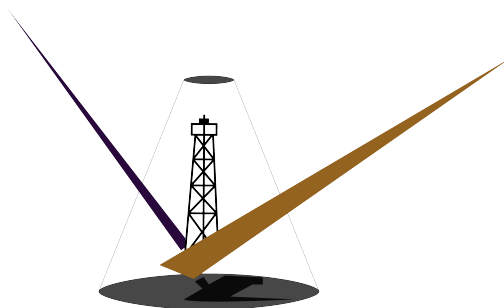


# UNIQUE DRILLING FLUIDS



*Unique Drilling Fluids*

## PRODUCT DATA

UDF, INC.  
1700 COMMERCE ST. STE 414  
Dallas, TX 75201  
T:214-741-1100  
F:214-741-1755  
web:[www.uniquedrillingfluids.com](http://www.uniquedrillingfluids.com)

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## CR-Q9-L/CR-Q9-P

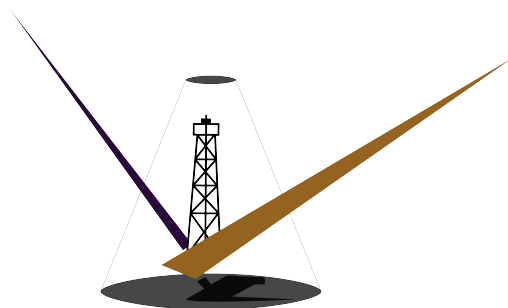
A CEMENT RETARDER

**CR-Q9-L** is a retarder with the chemical makeup being composed of lignin, a biochemical material derived from wood pulp which has been sulfonated. This environmentally benign retarder is used to control the thickening time of the cement slurry.

### APPLICATION

**CR-Q9-L** is a liquid material that is used to slow the rate at which the cement slurry hardens. This material is available in a powder form which can be added directly to cement. CR-Q9-L is used to control the setting of the slurry for bottom hole circulating temperatures of up to 250°F. It also has a dispersing effect on the slurry during placement. CR-Q9-L may be used for retarding any API class of cement (A, C, G or H). It can also be used with other cement additives such as **CFL-UQ13-L**, silica flour, **CD-U7-L**, and **CD-DFOAM-L**. **CFL-U9-P** is easily dispersed in an aqueous carrier, hence **CR-Q9-L**.

# UNIQUE DRILLING FLUIDS



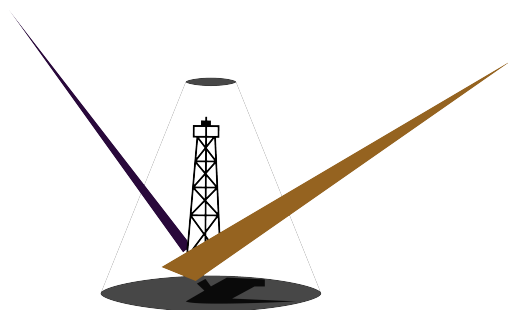
*Unique Drilling Fluids*

## PRODUCT DATA

### PROPERTIES

- Tan Powder
- Specific Gravity – 0.5
- Bulk Density – 24 lb./cu.ft.
- pH – 4.5
- Loading Rate – 0.1 to 2.0% bwc

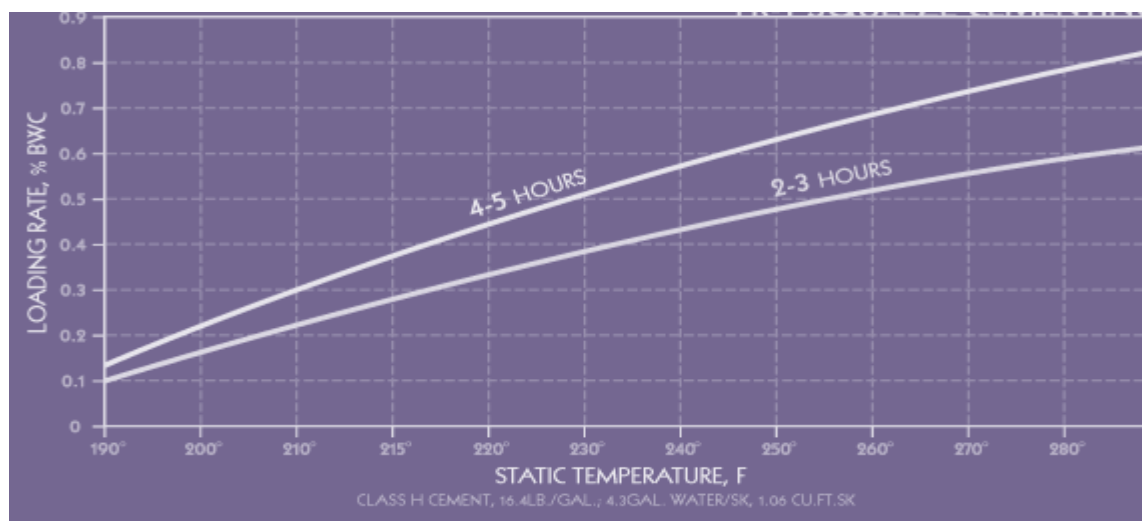
# UNIQUE DRILLING FLUIDS



*Unique Drilling Fluids*

## PRODUCT DATA

### CR-Q9-P DATA RESULTS



**PLOT 1.** The graph displays static temperature, loading rate and thickening time.

### PACKAGING

The material is packaged in 50lb multi-ply bags export ready and 5 gallon pails or 55 gallon drums. Contact UDF'S logistics department for special packaging requirements.