

# BENTONITE SLURRY SPECIFICATIONS FOR SLURRY TRENCH WORK

# General

The slurry used for trenching shall be a viscous suspension of colloidal sodium bentonite, slightly heavier than water with low filtration of water through trench sides.

The slurry shall be maintained within the trench to a depth ranging from 0.5 to 1.0 feet below mean grade level. At no time shall the slurry reach or exceed a depth of 1.5 feet below mean grade level.

Slurry shall be controlled within the trench for viscosity, gelation and density. The slurry properties can be controlled, as needed, by changes in the slurry stocked in the reservoir.

# **Bentonite Specifications**

Bentonite for trenching slurry shall be of the high-swelling Wyoming type bentonite—Volclay bentonite as manufactured by CETCO, Arlington Heights, Illinois.

Bentonite at contractor's option, may be powdered or granular type, meeting either of these general specifications:

Powder Volclay CP-200 Granular Volclay CG-50 Moisture content on both products: \*API Method

90 barrels\* per ton, minimum 12% maximum

# **Slurry In Trench-Specifications**

Viscosity (Marsh funnel 1500/1 quart) Gelation (Marsh funnel) Density 40 seconds minimum35 seconds minimum67 lbs. per cubic foot minimum

90 barrels\* per ton, minimum

# Note:

Density shall be controlled by desanding at intervals to densities as defined by the project engineer.

TR-330. Revised 3/03



### **Slurry In Storage Reservoir-Specifications**

Viscosity (Marsh funnel 1500/1 quart) Gelation (Marsh funnel) Density

40-50 seconds 35-50 seconds 65 lbs. per cubic foot minimum

#### Note:

- 1. Viscosity shall be determined by filling Marsh funnel with 1500 ccs. of fluid, timing the flow rate for 1 quart (946 ccs.) to flow out.
- 2. Gelation shall be determined in seconds from the time it takes for the balance of the fluid to drain from the Marsh funnel following Step 1.
- High density is normally achieved by native silts and fines remaining suspended in the slurry. Should excessively high densities occur, the excess solids can be removed by desanding or screening.

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