

## INFORMATION

# CA-GA2

### GELLING AGENT

#### DESCRIPTION

CA-GA2 is a unique blend of gelling agents designed to impart a higher initial gel strength in cement slurries. CA-GA2 does not affect setting times or the bonding qualities of the cement.

#### APPLICATION

CA-GA2 is mixed in the first 300-500 ft (annular fill) of cement to increase the cements initial gel strength. A high gel strength or plug flow cement is less prone to channeling through the drilling mud and produces more complete mud displacement. A yield strength of 40-50 lb/100 sq. ft. is usually adequate to insure good mud removal.

#### RECOMMENDED TREATMENT

The required mix water for the 300-500 ft of fill is measured into the displacement tanks and circulated through either the jet or the recirculating tub. The CA-GA2 is slowly added into the jet or tub to prevent lumping, and circulated for 10-15 minutes to insure uniformity. One pint per 6 bbls (0.1%) of CA-AFL may be added to prevent foaming.

Refer to chart for recommended concentrations of CA-GA2 for use in producing initial gel strengths of 40-50 lbs/100 sq. ft.

Tests should be performed to determine the gel strength needed to displace mud. Higher or lower gel strengths can be obtained by varying amount of CA-GA2 used.

#### COMPATIBILITY

CA-GA2 is compatible with all cements and most cement additives. If retarders or 3-18% dry blended salt is added to the cement design, approximately 0.25% additional CA-GA2 will be required.

CA-GA2 cannot effectively be used with greater than 3% salt pre-mixed in the mix water or with CA-FR3P and CA-FR3L.

If using a fluid loss additive, only one half (1/2) of the recommended concentration of CA-FR3P should be used to avoid an excessive viscosity build up. Tests should always be performed on the complete system before use, to insure compatibility of all additives.

#### **SAFETY**

Eye contact could result in some irritation. Chemical goggles should be worn. Dust is considered a nuisance dust. Dust mask must be worn under dusty conditions. If eye contact occurs, wash eyes for 5 minutes with water. If irritation continues, seek medical attention. If inhalation occurs, remove to fresh air.

#### **PACKAGING**

CA-GA2 is normally available in export quality 50 lb bags.

CA-GA2 is a Messina trademark