

# CA-WB1

## BARITE WEIGHTING AGENT

### DESCRIPTION

CA-WB1 is a form of barium sulfate commonly used as a weighting agent for drilling fluids and cement slurries. Although it is economical, and readily available, CA-WB1 is harder to wet than other weighting agents. Due to its lower specific gravity, the concentration of CA-WB1 required to prepare high density, reduced water slurries is much higher than CA-WH1 (Hematite) or CA-WI1 (Ilmenite). CA-WB1 is compatible with all Classes of API cement and all cement additives.

### PHYSICAL PROPERTIES

Material	CA-WB1
Form	White Poeder
Sp. Gravity	4.33
Abs. Vol	0.028 gal/lb
Packaging	100 lb Sacks or 1500 lb Bulk Bag

### APPLICATION

CA-WB1 can be used to increase the density of a cement slurry and improve the compressive strength of set cement. This fine aggregate material, barium sulfate, has a lower specific gravity than other premium weighting materials which limits the cement slurry density that can be obtained with CA-WB1, and necessitates additional mix water to be added to the slurry to maintain desirable slurry properties.

Normally 0.02 gal of additional mix water must be added to a cement slurry for each pound of CA-WB1 added to the dry cement blend to maintain slurry properties. The use of CA-FR3P will greatly enhance the slurry properties and minimize the need for additional mix water.

Typically, slurries have densities up to 19.0 ppg can be prepared with CA-WB1, however, maximum density obtainable using any Class of cement is dependent on the ease of dispersability of the cement, and should be tested in the laboratory. CA-WB1 concentrations should not exceed 125 lb per sack of cement. Slurry design and field mixing must be accurate to ensure that the CA-WB1 is suspended in the cement slurry and will not settle out during mixing or application.