

## INFORMATION

# CA-LC3

LOST CIRCULATION MATERIAL - GILSONITE

### DESCRIPTION

CA-LC3 is a granular, solid hydrocarbon classified as an asphalt. However, unlike most asphalts, CA-LC3 has unique characteristics which make it highly functional as a lost circulation material in cement slurries. CA-LC3 can be used interchangeably with CA-LC10 at concentrations below 10 lb per sack and at BHCT's below 250° F (121° C). The physical properties of CA-LC3 are as follows:

|                  |                     |
|------------------|---------------------|
| Form             | Angular Black Solid |
| Specific Gravity | 1.07                |
| Melting Point    | 385° F              |
| Bulk Density     | 50 lb/cu ft         |
| Absolute Volume  | 0.1123 gal/lb       |

### APPLICATION

CA-LC3 is used for lost circulation control and as an extender for cement slurries. CA-LC3 affords excellent scouring action of the wellbore surfaces when used in lead cement slurries.

CA-LC3 has little effect on the thickening time or compressive strength development of cement.

### RECOMMENDED TREATMENT

CA-LC3 can be added to cement slurries at concentrations ranging from 5 to 50 lb per sack. Optimum concentration ranges between 7.5 and 25 lb per sack. Care must be used at high concentrations (above 20 lb per sack) to avoid plugging of float equipment. CA-LC3 should not be used at BHCT's above 250° F (121° C). For each 25 lb of CA-LC3 an extra gal of mix water is required. CA-LC3 can be dry blended in the cement or slurried in the mix water for batch mixing.

### PACKAGING

CA-LC3 is normally available in 50 lb bags.

CA-LC3 is a Messina trademark