



CA-FL111

HIGH TEMPERATURE FLUID LOSS ADDITIVE

DESCRIPTION

CA-FL111 is a high temperature fluid loss control additive specially formulated for cementing applications where cement slurry properties are critical and bottom hole circulating temperatures exceed 392° F (200° C). Applicable in fresh water or salt water cement slurries (up to 18% BWOW), CA-FL111 consists of a select blend of polymeric components in free flowing powder form which has repeatedly provided superior slurry properties and lower fluid loss values (at equivalent or reduced concentrations) than comparative products currently used in the industry. CA-FL111 can be used in all API classes of cement.

PHYSICAL PROPERTIES

Form	Color	Sp. Gravity	Bulk Density	Availability
FreeFlowing	OffWhiteto	1.31	38.5 lbs/ ft 3	50 lb bags

APPLICATION

CA-FL111 is designed for application when bottom hole circulating temperatures range from 200° F (93° C) to 400° F (204° C). CA-FL111 is applicable at temperatures as low as 100° F (38° C) however, it does retard the thickening time at these temperatures. This material is recommended for deep liner cementing, long column primary casing cementing, and is excellent for squeeze applications. CA-FL111 enhances slurry properties, reduces friction pressures during job placement, and prevents dehydration of the cement slurry allowing complete and uniform annular fill. CA-FL111 is effective at all cement slurry densities.

RECOMMENDED TREATMENT

Typically, fluid loss values of less than 150 mL's/30 min. can be obtained at temperatures up to 275° F (135° C) using CAFL111 at concentrations ranging from 1.0 to 1.2 percent (BWOC). CA-FL111 is effective at concentrations as low as 0.5% in some applications. At temperatures above 275° F (135° C) the optimum concentration of CA-FL111 to use depends on the slurry design and source (brand) of cement. Laboratory testing is advised for all critical well applications.

CA-FL111 can be used in batch mix or continuous mix applications. When dry blended into the cement, CA-FL111 provides smooth, lump free mixing on location. This material should not be added directly to the mix water.



PACKAGING

CA-FL111 is packaged in export quality 50 lb or 25 kg net bags. Special export palletization, jungle boxing, etc. is available upon request.

MISCELLANEOUS

Additional technical information, prices and delivery schedules are available from any Messina office, area representative or distributor.

API FLUID LOSS

Base Cement System: API Class G + 35% Silica Sand/Flour

Slurry Density (ppg)	CA-FL111 (% BWOC)	BHCT (°C)	API Fluid Loss (mLs/30 min)
15.8	1.0	65	44
15.8	1.0	90	136
16.6	1.0	120	162
16.6	1.5	150	184
14.2	2.0	150	212
15.8	1.2	90	152
17.6	1.2	120	112
15.8	0.5	38	32
15.8	0.5	65	82