



# P-FLA3

## CEMENTING SERVICE BULLETIN

06/03/12

### P-FLA3 (MEDIUM TEMP. - FLUID-LOSS ADDITIVE)

#### TECHNICAL DATA

**P-FLA3** is a powdered fluid-loss additive designed for use at BHCT temperature up to 200°F in water from fresh to 18 % salt BWOW.

P-FLA3 can either be dry blended or pre-mixed in the mix water. At temperatures below 100°F P-FLA3 exhibits a retarding effect and the use of an accelerator (calcium chloride) should be used to reduce the WOC time without appreciably affecting the fluid-loss control. However, laboratory tests should be run before the job to confirm the cement design.

P-FLA3 is used in primary and squeeze cementing operations at concentrations of 0.3 to 1.5 Percent BWOC and can yield fluid-loss values ~ 50 to 150 cc/30 min.

P-FLA3 is compatible with all API classes of cement and most cement additives. However, extended systems require a higher concentration of fluid-loss additive due to the diluting effect of the additional water used in the extended system, subsequently a special additive; P-FLE was designed for this use.

#### PROPERTIES

<u>PRODUCT</u>	<u>FORM</u>	<u>SP. GR.</u>	<u>PACKAGING</u>
P-FLA3	Brown	1.36	50 Lbs. /Sack

#### SAFETY

Chemical goggles should be worn when handling P-FLA3 as it is considered a nuisance dust. If the product gets in the eyes, wash thoroughly with water for at least 15 minutes if irritation persists, seek medical attention. For skin contact, wash with soap and water, if irritation develops, see a doctor. Inhalation is not a severe problem, if overcome, move to fresh air.



**CLASS H CEMENT + P-FLA3**

**DENSITY:** 16.5 PPG  
123.43 PCF

**W.R.:** 4.28 GPS

**YIELD:** 1.05 CU FT/SK

**THICKENING TIME UNDER A. P. I. CONDITIONS**

% ADDITIVE	10°F	130°F	150°F	170°F
	6,000 FT	8,000 FT	10,000 FT	12,000 FT
0.2	2:20	1:50	1:10	----
0.4	2:45	2:01	1:25	----
0.6	4:00	2:50	2:00	----

**COMPRESSIVE STRENGTH**

**P. S. 1. (24 HOURS)**

% ADDITIVE	130°F	150°F	200°F
0.6	1,900	2,050	2,600