



P-LTR **CEMENTING SERVICE BULLETIN**

09/8/12

P-LTR (PETROCHEM - LOW TEMP. RETARDER)

TECHNICAL DATA

P-LTR is a powdered low temperature cement retarder for slurries designated for use from 85⁰F. to 185⁰F. P-LTR can also be dispersed easily in water and is compatible with either fresh or sea water.

P-LTR is compatible with all of the commonly used cements and cement additives. The normal concentration range of P-LTR is 0.2 to 0.5 % BWOC.

Generally speaking, the use of P-LTR at 0.4 % BWOC mixed with class "G" cement and fresh water at 15.8 Ppg. will provide appx. 3 1/2 hrs. TT. at BHCT of 145 deg. F. However, a dispersant will have an additional retarding effect when used with P-LTR and could add another one to two hours thickening time to the cement slurry. Therefore, specific thickening time data for slurry design must be determined in the laboratory with the cement, water and other additives prior to the cement job.

PROPERTIES

<u>PRODUCT</u>	<u>FORM</u>	<u>SP. GR.</u>	<u>PACKING</u>
P-LTR	Brown	1.23	50 Pounds/Sack.

SAFETY

Chemical goggles are required while handling P-LTR. If the P-LTR gets in the eyes, rinse with running water while holding the eye lids apart. If irritation persists, get medical attention. If the skin is contacted - wash thoroughly with water. For more information on safety refer to the MSDS sheet.



CLASS H CEMENT + -P-LTR

DENSITY: 16.5 PPG
123.43PCF

W. R.: 4.28 GPS
YIELD: 1.05 CU FT/SK

THICKENING TIME UNDER A. P. I. CONDITIONS

% ADDITIVE	6,000 ft	8,000ft	10,000ft	12,000 ft
		110°F	130°F	150°F
0	2:20	1:25	0:50	-----
0.2	3:30	2:35	1:SS	-----
0.3	-----	-----	3:05	2:25
0.4	-----	-----	4:00+	3:00

COMPRESSIVE STRENGTH

P. S. I. (24 HOURS)

% ADDITIVE	130°F	150°F	200°F
0	2,100	2,600	3,100