



P-TFL CEMENTING SERVICE BULLETIN

06/03/91

P-TFL (PETROCHEM – THIXOTROPIC FLUID-LOSS ADDITIVE (LIQUID))

TECHNICAL DATA

P-TFL (Petrochem-Thixotropic Fluid-Loss Liquid) is the only known compatible Fluid-loss additive recommended for use with P-TTCL. As a fluid-loss example, the use of 0.6 GPS P-TTCL, 0.2 GPS P-TFL, 0.02 GPS P-TCRL mixed with class G cement at 14.1 PPG. (Mix water 7.76 Gal/Sk, Slurry yield 1.51 cult/Sk. (125F.), will provide a fluid-loss of approximately 98ml/30 mins.

RHEOLOGY, FLUID LOSS AND FREE WATER WORK SHEET

Test No.	Cement system	Density lb/gal	Yield Cu ft/sk	Water	
				gal/sk	%
5-1	Class G + 0.6 gps P-TTCL +0.2 gps P-TFL+ 0.02 gps P-LTRL	14.1	1.51	7.76	
5-2	Class G + 0.6 gps P-TTCL +0.18 gps P-TFL+ 0.02 gps P-LTRL	14.1	1.51	7.76	
5-3	Class G + 0.6 gps P-TTCL +0.15 gps P-TFL+ 0	14.1	1.51	7.76	

Test No.	Cement		Additives-Note Order Of Addition To Water			Mix Water			Calc. By
	Source	Gm	P-TTCL (ml)	P-TFL (ml)	P-LTRL (ml)	Source	°F	mL	
5-1	LAB	700	37.28	12.42	1.24			431.5	
5-2	LAB	700	37.28	11.18	1.24			431.5	
5-3	LAB	700	37.28	9.32	NA			433.9	

Test No.	Test Temp.	Viscometer Dial Readings@RPM						10 sec. gel Strength	Rheology Data Reduction						
		600	300	200	100	6	3		Bingham Plastic			Power Law			
									10D	PV	Ty	10D	n'	k'	
5-1	80	198	122	93	57	11	10	13		97.5	24.5				
5-1	125	202	123	93	58	16	15	19		97.5	25.5				
5-2	80	159	95	70	43	8	7	Stirred Fluid Loss Cell							
5-2								19		78	17.0				
5-3	80	197	119	88	54	15	16	25		97.5	21.5				
5-3	125	180	111	89	56	33	26			82.5	28.5				

