



# P-ACCL

## CEMENTING SERVICE BULLETIN

11/29/91

### P-ACCL (PETROCHEM-ACCELERATOR CALCIUM CHLORIDE LIQUID)

#### TECHNICAL DATA

**P-ACCL** is used for basically the same purposes as its powdered equivalent. It achieves early compressive strength and reduces thickening time. It is used for the same cementing situations as the powder. However, the maximum concentration that should be used is 0.1 gals. sk. Stronger concentrations tend to cause flash setting of the slurry.

#### PROPERTIES

#### CaCl<sub>2</sub> EQUIVALENCE CHART

% by Weight Of Cement	Equivalent Liquid Volume Needed (gal/sk.)			
<u>P-ACCL</u>	<u>25% Sol.</u>	<u>30% Sol.</u>	<u>35% Sol.</u>	<u>40% Sol.</u>
1	0.36	0.29	0.24	0.20
2	0.73	0.58	0.48	0.40
3	1.09	0.87	0.72	0.60
4	1.46	1.16	0.95	0.80
5	1.82	1.45	1.19	1.00

#### Densities and Crystallization Temperatures of Calcium Chloride Solutions

<u>% P-ACCL Actual</u>	<u>Density of Solution</u>	<u>Crystallization</u>
	60 °F lb/gal	Temp. °F
25	10.33	- 21.0
30	10.80	- 50.8
35	11.26	+ 14.4
40	11.76	+ 55.9

**SAFETY** See Material Safety Data Sheet

#### **TYPICAL THICKENING TIME AND COMPRESSIVE STRENGTH**

Thickening time and compressive strength tests will be similar to those using dry P-ACC. Determine the equivalent concentration of dry P-ACC from above.