



# P-SPG

## TECHNICAL DATA SHEET

1/10/26

**P-SPG (PETROCHEM – SQUEEZE, PTA & GAS CONTROL)**

### TECHNICAL DATA

**P-SPG** is a pre-blended powdered additive for use in a Squeeze, PTA or Gas Control cementing application.

**P-SPG** contains a proprietary blend of powdered (Fluid-Loss, Dispersant, Anti-Foam, Expanding & Strength) additives for use in low to medium temperature cement slurries <200°F that can be mixed with either fresh or sea water.

**P-SPG** can either be pre-dissolved in the mix water or dry blended in the cement. A typical cement slurry using SPG mixed with any API cement at a concentration of 45 lbs. (1x5 Gal. Pail) per 2,000 lbs. (Super Sack) of cement. SPG is compatible with all API classes of cement together with other cement additives including silica flour, slag and fly ash.

### PROPERTIES

- Appearance: Tan (Powder)
- Specific Gravity: 2.39
- Temperature Range: < 200°F

### SPG FIELD MIXING PROCEDURE

- Fill a clean mixing tank with 92 gallons of fresh or sea water and begin mixing vigorously.
- Add **P-SRL** (Synthetic Retarder Liquid) and/or **P-DFL** (De-Foamer Liquid) as required and continue mixing vigorously.
- Slowly add 45 lbs. (1 x 5 Gal. Pail) of **P-SPG** and continue mixing vigorously until fully dispersed.
- Slowly add 2,000 lbs. (21.28 sacks) of Class “H” cement while mixing vigorously for a homogenous slurry blend.
- Slurry yield = 1.07 cuft/sk (94 lbs/sk) or 4.0 Barrels of slurry/2,000 lbs of cement or ~23 cuft, (Slurry density: 16.48 ppg).
- Fresh or Sea Water requirements are 38% BWOC (4.29 GPS) of Class “H” cement or 92 gallons/2,000 lbs. of cement

### PACKAGING

- **P-SPG** is packaged in 50 lb. Sacks & 5 Gallon (45 lb.)Pails.

### SAFETY

- Read the SDS before use.



**P-SRL (\*SYNTHETIC RETARDER LIQUID W/**FRESH WATER**) GUIDE FOR USE <300°F**

TEMPERATURE (°F)	RETARDER OZ / TON	THICKENING TIME	COMPRESSIVE STRENGTH (HRS.)		
			PRIMARY SET	600 PSI	2100 PSI
90-115	NONE	3:00-4:00	8 hr.	16 hr.	24 hr.
115-130	~38	3:30-4:00	6 hr.	12 hr.	24 hr.
130-145	~44	3:30-4:00	10 hr.	12 hr.	24 hr.
145-160	~46	3:30-4:00	9 hr.	11 hr.	24 hr.
160-175	~60	3:30-4:00	8 hr.	12 hr.	24 hr.
175-220	~120	3:30-4:00	11 hr.	13 hr.	24 hr.
220-265	~545	3:30-4:00	11 hr.	13 hr.	24 hr.
265-280	~926	3:30-4:00	11 hr.	13 hr.	24 hr.
280-300	~2447	3:30-4:00	11 hr.	13 hr.	24 hr.

**P-SRL (\*SYNTHETIC RETARDER LIQUID W/**SEA WATER**) GUIDE FOR USE <300°F**

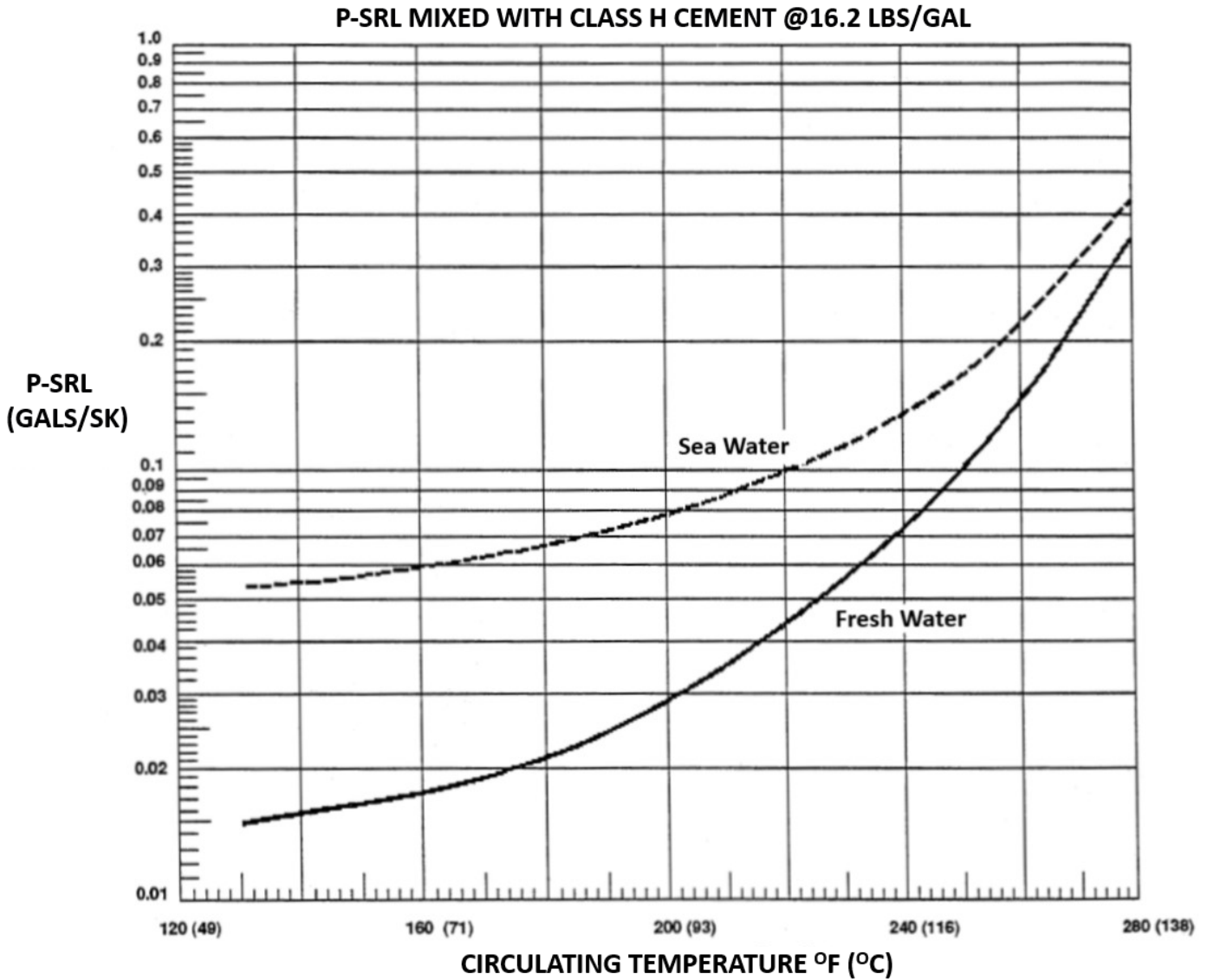
TEMPERATURE (°F)	RETARDER OZ / TON	THICKENING TIME	COMPRESSIVE STRENGTH (HRS.)		
			PRIMARY SET	600 PSI	2100 PSI
90-115	NONE	3:00-4:00	8 hr.	16 hr.	24 hr.
115-130	~136	3:30-4:00	6 hr.	12 hr.	24 hr.
130-145	~163	3:30-4:00	10 hr.	12 hr.	24 hr.
145-160	~191	3:30-4:00	9 hr.	11 hr.	24 hr.
160-175	~218	3:30-4:00	8 hr.	12 hr.	24 hr.
175-220	~272	3:30-4:00	11 hr.	13 hr.	24 hr.
220-265	~872	3:30-4:00	11 hr.	13 hr.	24 hr.
265-280	~1362	3:30-4:00	11 hr.	13 hr.	24 hr.
280-300	~2724	3:30-4:00	11 hr.	13 hr.	24 hr.

**\* THICKENING TIMES SHOWN ABOVE ARE ONLY A GUIDE THAT REQUIRES API TEST CONFIRMATION.**

**\*\* LAB TESTING IS RECOMMENDED PRIOR TO USE IN THE FIELD.**



FIGURE 1: TYPICAL P-SRL AMOUNTS FOR 4-HR THICKENING TIME (<300°F)



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