



P-SPG

PRODUCT DATA SHEET

1/10/22

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.
- P-SPG is compatible with all API classes of cement together with other cement additives including silica flour, slag and fly ash. A guide for Thickening Times and Compressive Strengths is provided below.

PROPERTIES

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

RECOMMENDED TREATMENT

- A typical cement slurry using P-SPG mixed with any API class “H” cement at a concentration of 45 lbs. (1 x 5 Gal. Pail) per 2,000 lbs. (Super Sack) of cement
- At a mix water of 4.29 GPS the cement weight will be ~16.2 ppg and a cement slurry yield of 1.09 cuft/sk.
- At ~150°F the slurry should provide a fluid-loss of ~150-200ml/30 minutes.

PACKAGING

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

SAFETY

- Read the SDS before use.



FIELD MIXING PROCEDURE

- Fill a clean mixing tank with 92 gallons of fresh water and begin mixing.
- Slowly add the required **P-SRL** (Synthetic Retarder Liquid) and continue mixing.
- Slowly add 45 lbs. (5 Gal. Pail) of **P-SPG** and continue mixing until fully dispersed.
- Slowly add 2,000 lbs. (21.28 sacks) of Class “H” cement while vigorously mixing for a homogenous slurry blend.
- Add **P-DFL** (De-Foamer Liquid) and/or **P-SRL** as required.
- Slurry yield = 1.09 CUFT/SK or 4.15 Barrels of slurry/2,000 lbs. (21.28 x 94 LB SKS of cement).
- Total slurry yield of mixture = 23.20 CUFT.
- Slurry density: 16.2 ppg
- Water requirements are 38% BWOC (4.3 GPS) of class “H” cement or 92 gallons/2,000 lbs. of cement.

P-SRL (*SYNTHETIC RETARDER LIQUID) GUIDE FOR USE UP TO 300°F

TEMPERATURE (°F)	RETARDER GUIDE (OZ)	THICKENING TIME	COMPRESSIVE STRENGTH (HRS.)		
			PRIMARY SET	600 PSI	2100 PSI
90-115	NONE	3:30-4:00	8 hr.	16 hr.	24 hr.
115-130	22	3:30-4:00	6 hr.	12 hr.	24 hr.
130-145	37	3:30-4:00	10 hr.	12 hr.	24 hr.
145-160	52	3:30-4:00	9 hr.	11 hr.	24 hr.
160-175	67	3:30-4:00	8 hr.	12 hr.	24 hr.
175-220	154	3:30-4:00	11 hr.	13 hr.	24 hr.

* TDS GUIDE – API REQUIRES LABORATORY CONFIRMATION TESTING.