



# P-SPG

## TECHNICAL DATA SHEET

DATE: JANUARY 1, 2026

### PETROCHEM – SQUEEZE, PTA AND GAS CONTROL ADDITIVE (POWDER)

#### PRODUCT DESCRIPTION

P-SPG is a pre-blended powdered additive designed for squeeze, PTA, and gas control cementing applications. The system incorporates fluid loss control, dispersion, anti-foam, expansion, and strength development components to support reliable slurry placement and long-term zonal isolation in low to medium temperature wells.

#### APPLICATIONS

- Squeeze cementing operations
- Plug, test, and abandonment (PTA) applications
- Gas migration control systems
- Primary and remedial cementing
- Freshwater and seawater slurry systems

#### TECHNICAL DATA

- Pre-blended system combining fluid loss control, dispersion, anti-foam, expansion, and strength development
- Supports slurry stability and controlled fluid loss
- Improves slurry rheology and placement efficiency
- Designed for low to medium temperature cementing systems (< 93°C / < 200°F)
- Compatible with API cement classes and common cement additives
- Suitable for use with silica flour, slag, and fly ash systems

#### TYPICAL PROPERTIES

- Appearance: Tan Powder
- Specific Gravity: 2.39
- Temperature Range: < 93°C / < 200°F

#### RECOMMENDED TREATMENT

- Typical concentration: ~45 lb per 2,000 lb cement (~2.25% BWOC)
- Equivalent packaging: 1 × 5-gallon pail per 2,000 lb cement
- Can be pre-dissolved in mix water or dry blended with cement
- Final slurry design must be confirmed through API laboratory testing

#### FIELD MIXING PROCEDURE

- Charge mixing tank with ~92 gallons of fresh or seawater and begin agitation
- Add required liquid additives (e.g., retarder, defoamer) as needed
- Slowly add 45 lb P-SPG and mix until fully dispersed
- Add 2,000 lb API Class H cement while maintaining continuous mixing
- Mix until a homogeneous slurry is achieved prior to pumping



### **TYPICAL SLURRY PROPERTIES (CLASS H BASIS)**

- Slurry Density: ~16.48 ppg
- Yield: ~1.07 ft<sup>3</sup>/sk
- Mix Water: ~4.29 gal/sk (38% BWOC)
- Total Slurry Volume: ~4.0 bbl per 2,000 lb cement

### **THICKENING TIME CONTROL**

- Thickening time can be adjusted using PETROCHEM retarder systems (e.g., P-SRL)
- Typical 3–4 hour thickening time achievable depending on temperature and retarder dosage
- Retarder requirements increase with temperature and must be confirmed through API testing

### **COMPRESSIVE STRENGTH DEVELOPMENT**

- Provides early and long-term strength development suitable for squeeze and gas control applications
- Typical strength progression dependent on temperature, retarder concentration, and slurry design
- Laboratory testing required to confirm performance under specific conditions

### **PACKAGING**

- Packaged in 40 × 50 lb (22.7 kg) sacks per pallet
- Packaged in 4 × 5-gallon (45 lb) pails per pallet with Rieke (pour) spouts
- Bulk or custom packaging options available upon request

### **SAFETY**

- Refer to the Safety Data Sheet (SDS) prior to handling or use

### **NOTICE**

The information provided herein is offered in good faith; however, no warranties, express or implied, are made. Users are responsible for determining product suitability and performance under actual operating conditions.