# P-SR250L

## TECHNICAL DATA SHEET

DATE: JANUARY 1, 2026

**PETROCHEM – LOW TO MEDIUM TEMPERATURE SYNTHETIC RETARDER 250 (LIQUID)**

**PRODUCT DESCRIPTION**

P-SR250L is a liquid synthetic cement retarder formulated to control cement hydration and extend thickening time in low to medium temperature cementing systems, maintaining slurry pumpability for effective cement placement.

**APPLICATIONS**

- Primary and remedial cementing operations
- Surface, intermediate, and liner cementing
- Conventional API oilwell cement slurry systems
- Freshwater and seawater cement formulations

**TECHNICAL DATA**

- Provides dosage-dependent thickening-time control
- Maintains slurry pumpability and rheological stability during placement
- Supports consistent setting characteristics
- Compatible with common cementing additives, subject to laboratory verification
- Disperses readily in cement mix water

**TYPICAL PROPERTIES**

- Appearance: Brown Liquid
- Specific Gravity: 1.08
- Temperature Range: < 250°F (121°C)

**RECOMMENDED TREATMENT**

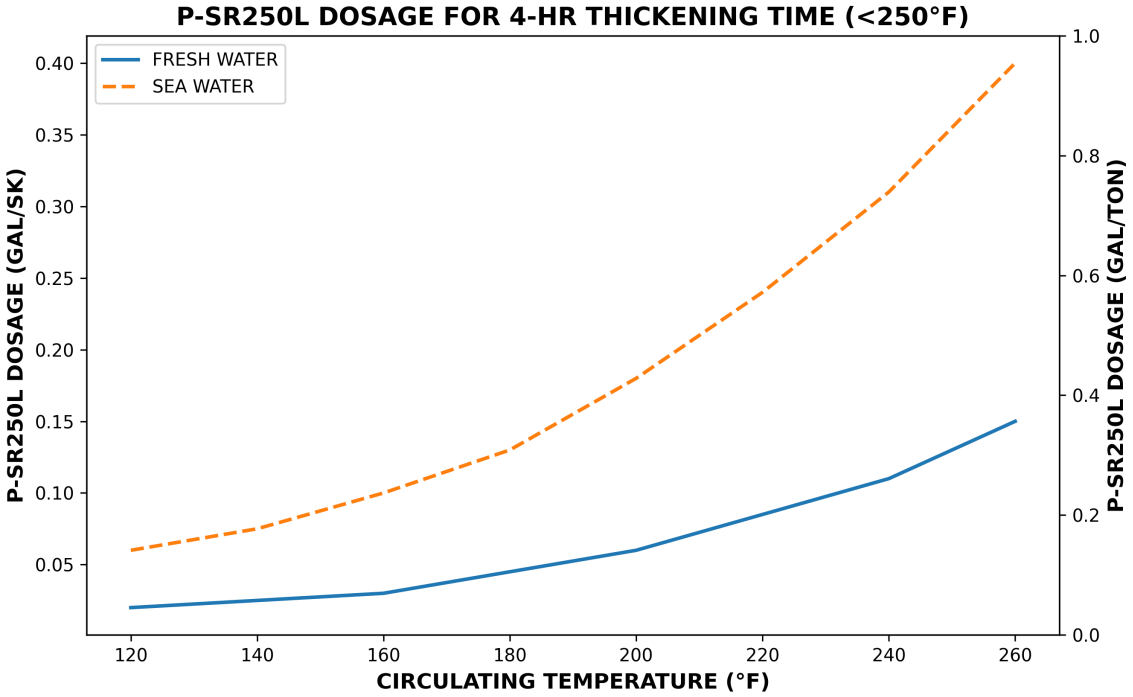
- Typical concentration: 0.02–0.40 gal/sk (0.4–8.5 gal/ton)
- Adjust dosage for cement composition, BHCT, and required placement time
- Thickening time and performance should be confirmed through API laboratory testing using actual cement, mix water, and additive systems prior to field application

**PACKAGING**

- Packaged in 4 × 55-gallon (208 L) drums per pallet
- Bulk or custom packaging options available upon request

**SAFETY**

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




| TEMP (°F) | FRESH WATER (GAL/ | FRESH WATER (GAL/TON) | SEA WATER (GAL/SK) | SEA WATER (GAL/TON) | THICKENING TIME (HR:MIN) | PRIMARY (HR) | 600 PSI | 2100 PSI |
|---|---|---|---|---|---|---|---|---|
| 120–130 | 0.02 | 0.43 | 0.06 | 1.28 | 3:30–4:00 | 6 | 12 | 24 |
| 130–145 | 0.02 | 0.43 | 0.07 | 1.49 | 3:30–4:00 | 10 | 12 | 24 |
| 145–160 | 0.03 | 0.64 | 0.09 | 1.92 | 3:30–4:00 | 9 | 11 | 24 |
| 160–175 | 0.03 | 0.64 | 0.11 | 2.34 | 3:30–4:00 | 8 | 12 | 24 |
| 175–190 | 0.04 | 0.85 | 0.13 | 2.77 | 3:30–4:00 | 11 | 13 | 24 |
| 190–205 | 0.05 | 1.07 | 0.17 | 3.62 | 3:30–4:00 | 11 | 13 | 24 |
| 205–220 | 0.07 | 1.49 | 0.21 | 4.47 | 3:30–4:00 | 11 | 13 | 24 |
| 220–235 | 0.09 | 1.92 | 0.27 | 5.75 | 3:30–4:00 | 11 | 13 | 24 |
| 235–250 | 0.12 | 2.56 | 0.34 | 7.24 | 3:30–4:00 | 11 | 13 | 24 |
| 250–260 | 0.15 | 3.19 | 0.4 | 8.52 | 3:30–4:00 | 11 | 13 | 24 |

**Dosage values are provided as guidance only.**
**Final dosage must be confirmed by API laboratory testing.**
**Data above 250°F is for reference only.**

**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.