



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 designed for low to medium temperature cementing applications up to 121°C / 250°F. The additive provides controlled retardation of cement hydration, extending thickening time while maintaining slurry pumpability and stable rheological behavior during placement.

APPLICATIONS

- Primary and remedial cementing operations
- Surface, intermediate, and liner cementing programs
- Low to medium temperature cementing systems < 250°F (< 121°C)
- Freshwater and seawater slurry systems
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TECHNICAL DATA

- Retards cement hydration to extend thickening time
- Provides predictable and controllable set-time behavior
- Maintains slurry pumpability and rheological stability
- Promotes smooth thickening time development with minimal variability
- Compatible with commonly used API cement classes (A–H) and cement additives
- Disperses readily in freshwater and seawater-based slurry systems

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)
- Final dosage should be determined through API laboratory testing using actual cement, mix water, and additive systems

PACKAGING

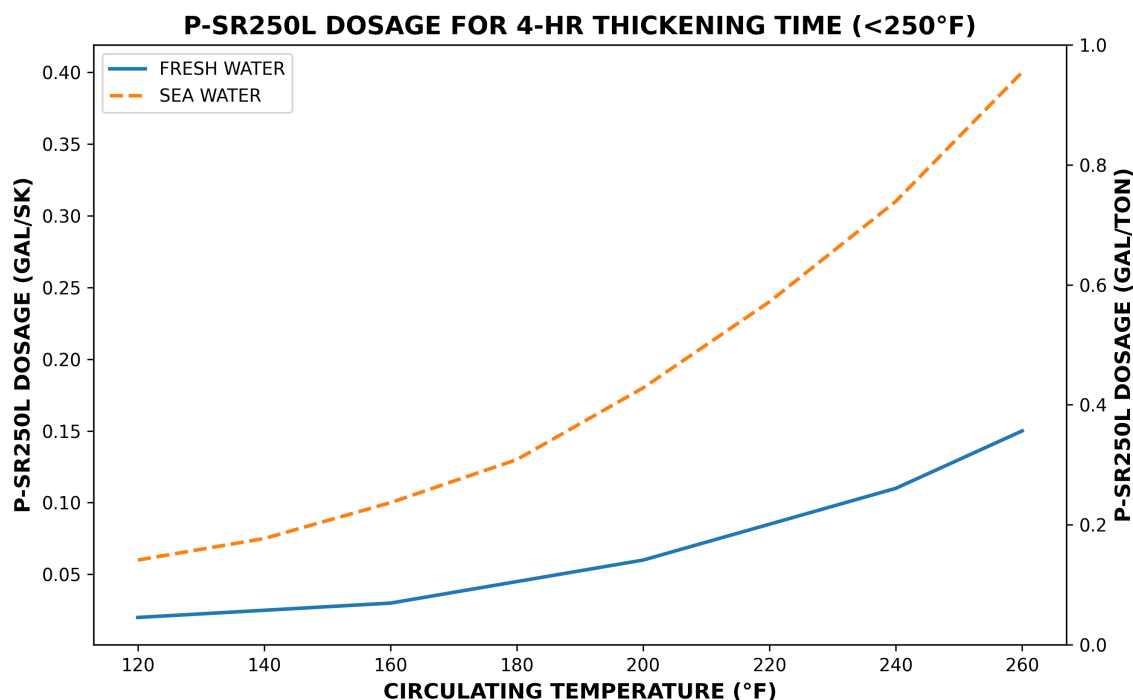
- Packaged in 4 × 55-gallon (208 L) drums per pallet

SAFETY

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



P-SR250L – TYPICAL DOSAGE FOR 4-HOUR THICKENING TIME (<250°F FRESH & SEA WATER, GAL/SK & GAL/TON)



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.