P-SR400

TECHNICAL DATA SHEET

DATE: JANUARY 1, 2026

PETROCHEM – SYNTHETIC HIGH TEMPERATURE RETARDER 400 (POWDER)

PRODUCT DESCRIPTION

P-SR400 is a high-performance synthetic powdered cement retarder engineered for high-temperature oilwell cementing applications. It provides controlled set-time extension while maintaining slurry pumpability, stability, and reliable cement placement under elevated temperature and pressure conditions.

P-SR400 is designed for reactive cement systems, including wollastonite and magnesium oxide formulations, where thermal stability and predictable thickening-time control are critical for HPHT operations.

APPLICATIONS

- HPHT oilwell cementing operations (300–400°F / 149–204°C BHCT)
- Reactive slurry systems including wollastonite and magnesium oxide
- Deep well and casing cementing
- Extended thickening-time cement formulations requiring pumpability retention

TECHNICAL DATA

- Provides controlled and predictable retardation in high-temperature systems
- Maintains slurry rheology and pumpability under elevated temperature and pressure
- Compatible with standard cementing additives including dispersants, fluid-loss agents, and extenders
- Dry-blend formulation ensures uniform distribution in cement systems

TYPICAL PROPERTIES

- Appearance: White Powder
- Specific Gravity: 1.47
- Temperature Range: 300–400°F (149–204°C)

RECOMMENDED TREATMENT

- Typical concentration: 0.75–1.5% BWOC
- Recommended initial laboratory starting point: 1.5% BWOC
- 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 40 × 50 lb (22.7 kg) sacks per pallet

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.