



P-HTR4

PRODUCT DATA SHEET

1/10/22

P-HTR4 (PETROCHEM - HIGH TEMPERATURE RETARDER 4)

TECHNICAL DATA

- **P-HTR4** is a powdered high temperature retarder for use in cement slurries from 200 - 400°F.
- **P-HTR4** provides a slight dispersing action in cement slurries thus aiding turbulent flow techniques.
- **P-HTR4** can be dry blended or dispersed in the mix water to provide uniform distribution throughout the cement slurry.
- **P-HTR4** is compatible with Type I, II & III as well as Class C and H API cements.

PROPERTIES

- Appearance: Off White (Powder)
- Specific Gravity: 2.44
- Temperature Range: 200 - 400°F.

RECOMMENDED TREATMENT

- **P-HTR4** is used at a concentration of ~ 1.0 - 2.0 % BWOC.
- Specific thickening time data for any given cement slurry design must be confirmed in an API laboratory test with the actual cement, mix water and other additives (prior to the cement job being pumped).

PACKAGING

- **P-HTR4** is packaged in 40x50 lb. Sacks per Pallet.

SAFETY

- Read the SDS before use.



TYPICAL EXTENDED LEAD SLURRY @ 250°F (121.1°C)

50:50 (Class H + POZ) + 10% Bentonite + 5% Silica + 0.1% P-HTD (HT Dispersant/Retarder Aid) + 1.2% BWOC **P-HTR4** + 8.70 gal/sk. fresh water @ 12.5 PPG.

- TT: ~7 hrs.
- Compressive Strength: 72 hrs. @ 700 psi
- Zero Free Water
- No Sedimentation

TYPICAL EXTENDED TAIL SLURRY@ 250°F (121.1°C)

50:50 (Class H + POZ) + 5% Bentonite + 35% Silica + 0.3% P-F400 (Fluid-Loss powder) + 0.1% HTD (HT Dispersant/Retarder Aid) + 1.3% BWOC **P-HTR4** + 5.3 gal/sk. fresh water @ 14.5 PPG.

- TT: ~7 hrs.
- Compressive Strength: 24 hrs. @ 1100 psi
- Fluid-loss: 48 ml/30mins @ 250°F
- Zero Free Water
- No Sedimentation

Concentrations for certain thickening times at a given depth and temperature vary with the brand of cement, therefore; laboratory tests with the actual cement, additives and location mix water should be tested prior to the cement job.