



# P-HTR4

## CEMENTING SERVICE BULLETIN

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 between 200°F to 400°F.

P-HTR4 also provides a slight dispersing action in cement slurries thus aiding turbulent flow techniques.

P-HTR4 can be dry blended or readily dispersed in the mix-water to provide uniform distribution throughout the cement slurry. The normal range of use for P-HTR4 is ~1.0% - ~2.0% BWOC.

P-HTR4 is compatible with Type I, II & III as well as Class C and H API cements.

#### 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.

<u>PRODUCT</u>	<u>FORM</u>	<u>SP.GR.</u>	<u>PACKAGING</u>
P-HTR4	Off-White Powder	2.44	50 lb. Sacks

#### SAFETY

Read the SDS before use.