



# P-F400L

## TECHNICAL DATA SHEET

1/10/24

### P-F400L (PETROCHEM - LOW TO HIGH TEMPERATURE FLUID LOSS LIQUID)

#### TECHNICAL DATA

- **P-F400L** is a low to high temperature fluid loss additive intended for use at BHCT < 400°F of which is to be pre-dissolved in the mix water.
- **P-F400L** may be used in fresh water up to saturated salt water; however, fresh water slurries tend to have higher viscosities due to the absence of the dispersing effect of the salt, which can be easily offset with the addition of a dispersant and/or retarder.

#### PROPERTIES

- Appearance: Colorless / Faint Yellow (Liquid)
- Specific Gravity: 1.10 (+/- 0.05)
- Temperature Range: < 400°F

#### RECOMMENDED TREATMENT

- The normal **P-F400L** concentration ranges is ~0.2 - 1.0 gals/sack.
- Compatibility testing is highly recommended prior to use in the field.

#### CEMENT SLURRY DESIGN

CEMENT SLURRY DENSITY 15.85 LBS./GAL	RECOMMENDED DOSAGE (FRESH WATER)	RECOMMENDED DOSAGE (18% SALT WATER) MEDIUM TEMPERATURE	RECOMMENDED DOSAGE (18% SALT WATER) HIGH TEMPERATURE
Fresh Water 1.90 g/cm <sup>3</sup> W/C = 0.44  18% Salt Water W/C = 0.57	0.48 gal/sk	0.66 gal/sk	0.96 gal/sk

- The above Cement Slurry Design is based on a 94 lb. sack of cement.
- Please adjust the dosage accordingly based on the difference in cement, mix water & slurry density.
- The dosage should also be increased when used in high concentration salt water & high temperature applications.
- Confirmation tests should be performed in the laboratory prior to use in the field.



## CEMENT SLURRY PERFORMANCE

DESIGN		CONDITIONS	RESULTS
FLUID LOSS (ML)	FRESH WATER	80°C 6.9 MPa	≤50
	18% SALT WATER		≤150
	18% SALT WATER	120°C 6.9 MPa	≤150
INITIAL CONSISTENCY (BC)		80°C / 45 MIN 45.5 MPa	≤30
THICKENING TIME (MIN) 40 (BC)			≤40
THICKENING TIME (MIN) 100 (BC)			50 – 150
FREE FLUID (%)		80°C ATMOSPHERIC PRESSURE	≤1.4
24H COMPRESSIVE STRENGTH (MPA)			≥14

## PACKAGING

- **P-F400L** is packaged in 55-gallon (208L.) drums.

## SAFETY

- Read the SDS before use.