



# P-LTD & LTDL

## CEMENTING SERVICE BULLETIN

05/27/18

### P-LTD & LTDL (PETROCHEM – LOW TEMP. DISPERSANT POWDER & LIQUID)

#### TECHNICAL DATA

**P-LTD & P-LTDL** (Low Temperature Dispersant powder and Liquid) is available in powder and liquid form, and is designed for use in fresh water through salt-saturated water cement slurries. It provides much lower rheological values than conventional dispersants when used in silica sand, silica flour, micro silica, and salt-saturated cement slurries.

P-LTD and P-LTDL works very well with P-LTFL, P-FLE, P-FLA/S, P-FLA and P-MTRF at temperatures below 185 deg.<sup>0</sup>F providing a mixable slurry with acceptable down hole rheological characteristics, while avoiding retardation. This effect is also seen with some neat class H cement slurries because conventional dispersants strongly retard these types of cement even at low concentrations.

When cementing shallow steam injection wells with 35 % silica flour, the use of conventional dispersants retards the setting time and early compressive strength at temperatures below 120 deg.<sup>0</sup>F. However, with P-LTD or P-LTDL, it is possible to obtain thickening times of less than five hours and sixteen hours compressive strength of more than 3,000 psi.

Tests have shown that there may be large differences in early compressive strength results between the API procedure and curing in a water bath. This is due to pressure, and is not specific to P-LTD & P-LTDL, but true with any additive. Therefore, it is recommended that either the API procedure or the actual well conditions be used for compressive strength tests. Therefore, measurements at atmospheric pressure must be avoided.

P-LTD & P-LTDL is compatible with most commonly-used Petrochem additives, except Gypsum and P-TTCL. The normal concentration for P-LTD is between 0.3 % to 1.6 BWOC and for P-LTDL is between 0.1 to 0.5 gals per sack.

#### PROPERTIES

<u>PRODUCT</u>	<u>FORM</u>	<u>SP. GR.</u>	<u>PACKAGING</u>
P-LTD	White powder	1.85	50 lbs. /Sk.
P-LTDL	Clear solution	1.10	55 Gallons/Dr.