



# P-D88

## TECHNICAL DATA SHEET

1/10/26

**P-D88 (PETROCHEM - HIGH TEMPERATURE DISPERSANT, ANTI-GELLING AGENT & FRICTION REDUCER POWDER)**

### PRODUCT DESCRIPTION

- **P-D88** is a multi-functional cement additive powder designed to optimize slurry performance in oil well cementing operations. It functions as a dispersant, anti-gelling agent, and friction reducer.
- **P-D88** is effective in both freshwater and brine systems and is thermally stable up to 400°F, making it suitable for high-temperature and high-pressure (HTHP) wells.
- **P-D88** can be incorporated into the cement mix in two primary ways: through dry blending or by being dispersed in water prior to mixing with the cement.

### TECHNICAL DATA

- The primary function of **P-D88** as a dispersant is to improve the flow characteristics of the cement slurry, reducing viscosity and enhancing the workability of the mix. This is crucial in applications that require precise placement of cement, as it allows for easier pumping and reduces the risk of blockages in the delivery system. A well-dispersed slurry can significantly reduce the energy required for pumping and improve the accuracy of placement.
- In addition to its flow-enhancing properties, **P-D88** also contributes to the overall durability and strength of the cement once it sets. By ensuring a uniform distribution of particles, it can lead to a denser microstructure, which enhances resistance to various environmental stresses such as temperature fluctuations, chemical attack, and mechanical loading. This makes **P-D88** an ideal choice for projects in extreme conditions, where the longevity and integrity of the cement are paramount.
- The versatility of **P-D88** allows it to be used in conjunction with other additives, such as retarders or accelerators, further tailoring the cement properties to meet specific project requirements. For example, in high-temperature environments, it may be used alongside a high temperature synthetic retarder (**P-SR4**) to control the setting time, ensuring that the cement remains workable for an extended period before hardening.
- In summary, **P-D88** stands out as a crucial component for enhancing the performance of high-temperature cement applications. Its ability to be either dry blended or water-dispersed, combined with its impact on workability and final cement strength, makes it a valuable tool for engineers and construction professionals facing challenging conditions.

### PROPERTIES

- Appearance: Brown (Powder)
- Specific Gravity: 0.80
- Temperature Range: < 400°F

### RECOMMENDED TREATMENT

- The normal concentration range of **P-D88** is 0.5 - 1.5% BWOC.



## KEY FEATURES & BENEFITS

### DISPERSANT

- Improves slurry homogeneity by dispersing cement particles uniformly.
- Enhances rheological control and reduces flocculation.

### ANTI-GELLING AGENT

- Controls gel strength development during static periods.
- Prevents premature thickening and plugging.

### FRICTION REDUCER

- Reduces pumping pressure and surface horsepower requirements.
- Enables laminar or turbulent flow at lower flow rates.

### HIGH TEMP STABILITY

- Maintains effectiveness up to 400°F (204°C).

### SALT COMPATIBILITY

- Performs in systems with high salt concentrations (NaCl, KCl, etc.)

### PACKAGING

- **P-D88** is packaged in 40 x 50 lb. Sacks / Pallet.

### SAFETY

- Read the SDS before use.