P-FFA

TECHNICAL DATA SHEET

DATE: JANUARY 1, 2026

PETROCHEM – FREE FLOW ADDITIVE (POWDER)

PRODUCT DESCRIPTION

P-FFA reduces static charge, particle agglomeration, and handling losses in dry cement and bulk solids, promoting uniform flow during loading, pneumatic transfer, and delivery.

APPLICATIONS

Cement, proppants, and minerals in bulk handling systems, including horizontal and marine storage tanks.

TECHNICAL DATA

- Promotes particle repulsion to improve dry blend flow
- Reduces static buildup, associated air entrainment, and surging
- Improves handling under varying temperature, humidity, and operating conditions
- Compatible with cement and common additives, subject to laboratory confirmation
- Reported field material losses decreased from approximately 30 to 60% to less than 10% in problematic systems; results vary with transfer conditions

TYPICAL PROPERTIES

- Appearance: White Powder
- Specific Gravity: Approximately 2.61
- Temperature Range: < 400°F (204°C)

RECOMMENDED TREATMENT — CEMENT

- Typical dosage: Approximately 0.10 to 0.25% by weight of cement (BWOC)
- Blend with base cement for approximately 2 minutes before adding other additives, then blend the full load for approximately 15 minutes
- Supports density control during slurry preparation
- Confirm dosage and blending through laboratory testing and field evaluation; assess rheology, free fluid, thickening time, and compressive strength under representative well conditions, particularly for high viscosity systems

RECOMMENDED TREATMENT — PROPPANT (FRAC SAND & CERAMICS)

- Typical dosage: Approximately 0.10 to 0.25% by weight of proppant (100 to 250 lb per 100,000 lb)
- Introduce at the air can before pneumatic transfer or incorporate during manufacturing
- Supports uniform material movement and density control; no known incompatibilities with standard proppant systems

PACKAGING & STORAGE

- 40 × 50 lb (22.7 kg) sacks per pallet; store sealed in a dry area

SAFETY

Refer to the Safety Data Sheet (SDS) prior to handling or use

NOTICE The information provided herein is offered in good faith; however, no warranties, express or implied, are made. Users are responsible for determining product suitability and performance under actual operating conditions.