



P-FFA

TECHNICAL DATA SHEET

DATE: JANUARY 1, 2026

PETROCHEM – FREE FLOW ADDITIVE (POWDER)

PRODUCT DESCRIPTION

P-FFA is a solid flow enhancement additive designed to reduce static charge and particle agglomeration in dry cement and bulk materials. The additive improves material flow characteristics, reduces transfer losses, and supports efficient handling and consistent delivery of bulk solids.

APPLICATIONS

- Flow enhancement for dry cement and bulk materials
- Pneumatic transfer systems for cement, proppants, and minerals
- Bulk material loading, transfer, and offloading operations
- Systems requiring reduced material loss and improved flow consistency

TECHNICAL DATA

- Reduces and/or eliminates static charge buildup during material transfer
- Minimizes particle agglomeration and air entrainment
- Improves bulk material flow and reduces surging
- Enhances transfer efficiency and reduces material loss
- Improves handling under varying temperature, humidity, and system conditions
- Effective in systems with low angle of repose (e.g., horizontal or marine tanks)
- Compatible with cement systems and commonly used cement additives
- High-viscosity systems should be laboratory tested for slurry performance

TYPICAL PROPERTIES

- Appearance: White Powder
- Specific Gravity: 0.91
- Temperature Range: No Limit

RECOMMENDED TREATMENT

- Typical dosage: ~0.05% BWOC
- Add to base cement and blend for approximately 2 minutes prior to adding other additives
- Complete blending with full cement load for approximately 15 minutes
- Final dosage and blending procedure should be confirmed through laboratory and field testing

APPLICATION MECHANISM

- Interacts with charged particle surfaces to promote repulsive forces within the blend
- Reduces inter-particle attraction responsible for poor flow characteristics
- Improves bulk flow behavior, reducing losses and enhancing transfer efficiency
- Field results indicate material loss reductions from 30–60% to less than 10% in problematic systems



PROPPANT APPLICATION

- Recommended dosage: ~0.05% by weight (~50 lb per 100,000 lb proppant)
- Can be added at the air can prior to transfer or during manufacturing
- Improves pneumatic flow behavior and reduces surging
- Provides smoother material transfer and improved density control
- No known compatibility issues with standard proppant systems

SLURRY PERFORMANCE

- Improves cement blend flow characteristics prior to hydration
- Contributes to improved density control during slurry preparation
- Does not adversely affect cement system compatibility when properly tested

PACKAGING

- Packaged in 40 × 50 lb (22.7 kg) sacks per pallet
- Bulk or custom packaging options available upon request

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.