



SILICON DIOXIDE ANTI-CAKING AGENT FOR SWINE & POULTRY FEEDS

Modern swine and poultry diets frequently contain fine particles, fats, oils, mineral ingredients, and moisture-sensitive raw materials that negatively impact feed flowability. Poor flow characteristics can create major operational challenges throughout the feed handling system, including feed bridging, ratholing, feeder inconsistency, and interruptions in feed delivery to animals.

SuperFlow is a high-performance silicon dioxide anti-caking agent specifically designed to improve physical feed handling characteristics in modern swine and poultry production systems. By improving particle separation and reducing cohesive forces within feed, SuperFlow supports more consistent feed movement from the mill to the feeder.



KEY BENEFITS OF SUPERFLOW

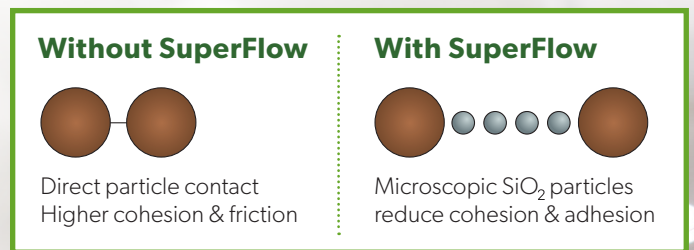
Benefit	Operational Impact
Improved Feed Flowability	Promotes smoother feed movement through bins, augers, hoppers, and feeders.
Reduced Bridging	Helps minimize stable arches and feed hang-up inside storage systems.
Reduced Ratholing	Supports more complete discharge patterns and improved material movement.
Improved Feeder Flow	Promotes more consistent feeder pan coverage and feed presentation.
Reduced Labor Requirement	Less time spent adjusting feeders or manually breaking feed bridges.
Improved Feed Availability	Supports more consistent access to feed for swine and poultry.

HOW SILICON DIOXIDE IMPROVES FEED FLOW

Typical swine and poultry feed particles are relatively large, irregular in shape, and prone to friction and adhesion when exposed to pressure, humidity, fats, or fine particle density. These interactions can create cohesive forces that restrict normal material flow.

SuperFlow silicon dioxide particles are extremely small relative to feed particles. These microscopic particles position themselves between feed particles and act as physical separators, reducing direct particle-to-particle contact and lowering cohesive forces within the feed mass.

The result is improved flowability, reduced compaction, improved discharge behavior, and more consistent feed movement through storage and feeding systems.





OPERATIONAL ADVANTAGES IN SWINE & POULTRY PRODUCTION

Feed flow interruptions can create inconsistent feed availability and increased labor requirements within production systems. When feed bridging or ratholing occurs, feeders may appear full while feed movement has actually stopped. This can lead to feeder inconsistency, increased manual intervention, and reduced feeding efficiency.

SuperFlow helps support: More consistent feeder discharge
Reduced feed handling interruptions
Improved flow through flex augers and drop tubes
Reduced bridging in bulk bins and day bins
Reduced feeder management time
Improved feed accessibility to animals.



APPLICATION AREAS

Swine Applications Nursery feeds, Creep feeds, Meal feeds, Pelleted feeds, and High-fat diets Fine particle diets.

Poultry Applications Broiler starter feeds, Layer feeds, Turkey feeds, and Mineral-dense formulations Fine grind feed programs.

WHY PHYSICAL FEED FLOW MATTERS

Physical feed characteristics are often overlooked compared to nutrient formulation, yet flowability directly impacts the consistency of feed delivery within commercial production systems.

Even nutritionally optimized feeds can create operational issues if feed movement is inconsistent. Reducing bridging, compaction, and feeder flow interruptions helps maintain more reliable feed presentation, supports labor efficiency, and improves overall feeding system performance.

DID YOU KNOW

The **Angle of Repose** is the maximum angle at which feed material can accumulate while remaining stable without collapsing or flowing. In livestock feeds, a higher **angle of repose** typically indicates poorer flowability caused by fine particles, moisture, fats, or cohesive ingredient interactions that increase bridging and ratholing within bins, augers, and feeders. SuperFlow, a silicon dioxide anti-caking agent, helps reduce the **angle of repose** by decreasing particle-to-particle adhesion and friction within the feed mass. By improving particle separation and reducing cohesion, SuperFlow promotes smoother feed movement, improved feeder discharge, reduced material buildup, and more consistent feed availability for swine and poultry operations.

High Angle of Repose (Poor Flowability)

Steep feed pile, tighter particle packing, bridging and ratholing occurring in the bin.

Low Angle of Repose (Improved Flowability with SuperFlow)

Flatter feed pile, freer particle movement, smoother discharge pattern.

TECHNICAL SUPPORT TEAM

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Improved flowability.

Reduced bridging.

Better feeder performance.