



SOLVAY

asking more from chemistry®

Tixosil®

Animal nutrition
Silica for quality premixes



Solvay, leader and inventor of Micropearl silica

Tixosil[®], a developed product range:

- designed to meet the specific needs of the animal nutrition market
- ultra-absorbent and free flowing powders
- improves the processing, packaging and stability of animal feed additives



Solvay's Tixosil[®] range of precipitated silica is built around standard powders and Micropearl technologies to serve the animal nutrition industry. Invented by Solvay, the Micropearl form is a unique spherical agglomerate that opens up new opportunities for the feed additives market. Distributed on a global basis, Tixosil[®] products are a non-dusting and highly flowable carrier solution for premixes. The Tixosil[®] range is in full compliance with international nutrition regulations.



Solvay's silica: a safe ingredient

Solvay's silicas are precipitated amorphous silicas obtained from an inorganic synthesis process. Solvay's precipitated silica is a safe product in terms of manufacture, transportation and handling.

High quality, certified production sites

All of Solvay's precipitated amorphous silica production plants are certified ISO 9001. Furthermore, all sites supplying feeds grades are certified ISO 14001, FAMI QS (including the HACCP⁽¹⁾ analysis).

(1) HACCP: Hazardous Analysis Critical Control Point

Tixosil® range:

standard and micropearl technologies customized to a wide range of applications



By adapting its particle size distribution, silica can be used to optimize the flowability of nutrients that are essential to animal health. In addition, Tixosil®'s excellent flowability coupled with its absorption capacity, greatly facilitates storage and transport to the mixer tanks to make feed premixes.

Vitamin E

Solvay's precipitated silica is perfectly adapted to meet the challenges presented by the viscous nature of vitamin E. Vitamin E is difficult to manipulate, to transport and for livestock to ingest. Solvay's Tixosil® range, notably its Micropearl grades, address these challenges with tailored absorption capacity that enables a free-flowing powder to be obtained. These non-caking powders are easy to dose and are totally homogenous thus ensuring the correct vitamin treat-ratio.

Organic acids

Tixosil® products, in powder or Micropearl form, are completely compatible with animal feed acids used to improve digestion and protect against infection. Micropearl grades, in particular, improve dosage rates of acids such as propionic, formic, acetic, lactic, phosphoric as well as short- and long-chain fatty acids in general.

Pigments and aromas

Silica's excellent compatibility with a variety of additives enables precise dosing thus improving the animals' appetite and the color of the foodstuffs.

Whey powder and milk replacers

By absorbing excess fat and acting as an anti-caking agent in the final powder, Solvay's silica plays an essential role in improving the processability as well as the free-flowing properties of substitute milk powders. In the spray drying process, Tixosil® slows down the caking build-up on the spray tower walls and ensures a free flowing final product that is stable in storage.



Micropearl Tixosil® 68 and Tixosil® 38X: the market benchmarks

Available worldwide (in bulk, big bags and bags), Tixosil® 68 and Tixosil® 38X are Micropearl precipitated silicas which offer significant improvements both in terms of processing and product presentation for feed additives. While Tixosil® 38X presents an outstanding absorption capability, Tixosil® 68 is more resistant and cohesive.

Both of them are non-dusting and free-flowing silicas, which:

- increase processing productivity
- improve Health, Safety and Environment (HSE) conditions
- allow easy handling

Solvay Silica feed application laboratory will support you to:

1	2	3
Select the	Define	Specify the
OPTIMUM SILICA GRADE	EFFICIENT DOSING RATE	BEST MIXING CONDITIONS

Global Industrial and R&D network

- Industrial site ■
- R&D Center ●



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