



How to Improve Sprayability

Natural and Functional Fiber Agents for the Production of Fertilizer Liquids

YOUR CHALLENGE

Rheology control by synthetic polymers and silicones sometimes impair sprayability. This is why fine spray patterns cannot be produced with simple spray lances. Spray angles are difficult to adjust, break out and an uneven drip pattern causes the fertilizer to be distributed unevenly on the leaf. Therefore precise dosing becomes impossible.



How to Solve it

Influence the spray parameters by controlling viscosity to improve the sprayability of your fertilizer dispersion, i.e. separation into fine droplets, with narrower spray angle and consistent spray pattern.



Which Fiber Works

Microcrystalline Cellulose Gels (MCG) from the VIVAPUR® and ARBOCEL® Fiber Group for use in sprayable foliar fertilizers, as a plant-based alternative to synthetic polymers and silicones.



How it Works

JRS colloids increase the molar mass in the dispersion and enable higher viscosity and thus smaller, more consistent droplets.



How to Use it

0.5- 2.5% addition in water and activation by shear forces before adding fertilizer components. Direct activation in the fertilizer solution is also possible but requires higher shear forces.

Choose the most modern and sustainable way to optimize your production of liquid fertilizers:

Building on experience in virtually every industry sector, JRS Plant Fiber Agents have proven to be true solution providers in managing properties of all liquid substances. In fluid fertilizers and gels any kind of requirements in anti-settling, sprayability, anti-rinse-off, thixotrophy and thickening can be managed by our organic agents.



ARBOCEL® and VIVAPUR® MCG for better sprayability

How to Improve Sprayability

Formulate Without Silicon!

- > Formulation benefit: suitable for silicon-free products
- > Simplified equipment cleaning compared to the use of polymers and silicones



Create Products that are Better and Easier to Spray!

- > More targeted and thus more efficient application enables lower consumption quantities
- > Product application requirements are simpler, as product can be applied with simple spray technology, e.g. flat-fan nozzles instead of more expensive spray technologies like low-drift nozzles



Disclaimer
 The above mentioned information is based on our practical knowledge and experience and is meant to be helpful when using our products. Due to the different materials and processes involved, we recommend in any case, adequate testing at your company or consultation with us. We cannot be held liable for this information.

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