How to Avoid Settling, Flocculation, Floating and Sedimentation

Natural and Functional Fiber Agents for the Production of Fertilizer Liquids

YOUR CHALLENGE

In liquid formulations, the different physical characteristics of its components make it difficult to reach a long-term homogeneous and stable composition. Segregation processes limit the shelf-life and applicability of the liquid product. The use of common stabilizers, such as Xanthan Gum, is limited by the tolerance against ph values or by fast microbiological spoilage.

How to Solve it

Replace conventional stabilizers, such as Xanthan Gum, and stabilize the dispersion in a permanent and reliable manner.

Which Fiber Works

Microcristalline Cellulose Gels (MCG) from the VIVAPUR® and ARBOCEL® Fiber Group.

How it Works

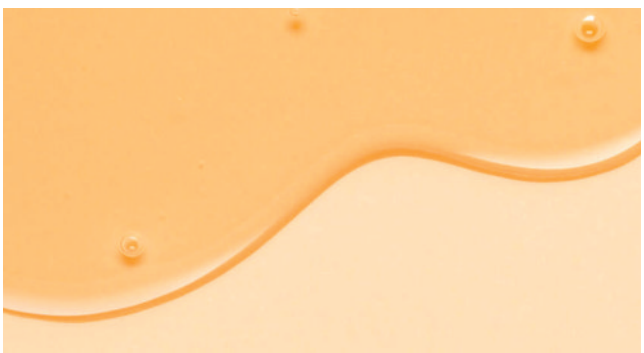
MCG products build up a stable fiber network in fertilizer dispersions, which keeps unsoluble components in suspension. The broad range of MCGs resists the impact of low and high ph values. They provide a full microbiological stability.

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.

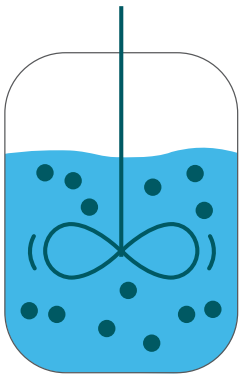


ARBOCEL® and VIVAPUR® MCG for anti-settling

How to Avoid Settling, Flocculation, Floating and Sedimentation

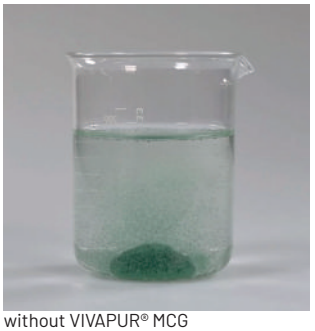
Simplify Your Mixing Process

- Easy and fast preparation of a MCG solution
- Easier processing in comparison to Xanthan Gum, due to better gel consistency
- Advantages in formulation due to pH value tolerant stabilization



... and Create Stable Dispersions!

- Longer shelf life due to longer system stability of the dispersion and due to microbial stability of MCG compared to Xanthan Gum
- No subsequent stirring necessary before application
- Stable, homogeneous active ingredient composition during application, especially with regard to trace nutrients
- Can be stored at temperatures below 0° Celsius: MCG prevents crystalisation



without VIVAPUR® MCG

with VIVAPUR® MCG

Contact us

www.jrsplantcultivation.com

10_142_GB_V1_0.02410PDF

WORLDWIDE HEADQUARTERS
J. RETTENMAIER & SÖHNE GMBH + CO KG

BU Technics / JRS Plant Cultivation
73494 Rosenberg (Germany)
Phone: +49 7967 152-440
technik@jrs.de
www.jrsplantcultivation.com