

Additives for Fertilizers and Plant Health Products

Functional Solutions for your Application

JRS products are developed from renewable, organic raw materials. Each type of plant has its own properties. JRS innovative technology opens up these valuable properties for various functionalities and designs: Fibers and granules based on cellulose, wood, colloidal systems, cellulose derivatives and much more.

With JRS products, dosage forms for fertilizers and plant health products are optimized, homogeneous release of plant nutrients is achieved and plant availability is improved.

The products are subject to strict quality and purity criteria and are suitable for a FiBL-listing for organic farming and horticulture.

Rheology agents for liquids

Our additives are used for thickening, stabilization, thixotrope or water retention.

ARBOCEL® and VIVAPUR® Colloidal Microcrystalline Celluloses MCG

- Stabilization of suspensions against sedimentation, flotation, flocculation and caking
- Stabilization of oil-/water-emulsions
- Optimization of spraying technology
- Water retention and controlled drying during spray dosing
- Protection against dripping off the leaf during spray dosing
- Adjustment of viscosity
- Easy to process alternative to xanthan gum
- Functional synergies with other hydrocolloids (alginates, xanthan gum)
- Optimal activation even with low shear forces
- Specific product solutions for different pH values and high salt contents



Activation



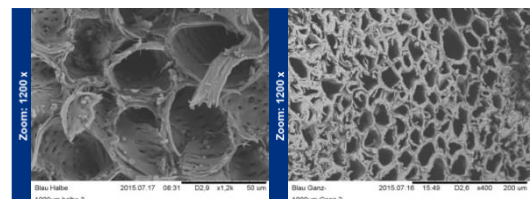
3D-Fiber network

ARBOCEL® and VITACEL® HPMC Cellulose ether

- Adjustment of Viscosity with 3 – 100.000 mPas·s in 2 % concentration
- Water retention and water binder against rapid drying of gels or pastes
- Film coating as efficient barriers against the ingress and loss of liquids
- Different viscosities, substitution and etherification degrees available
- Soluble in cold water
- pH stable

Carriers

Customized excipients for fertilizers, plant adjuvants, but also biocides and deterrents can substitute synthetic or mineral based products. Environmentally friendly products made from renewable raw materials offer different surfaces, particle sizes, loading capacities and absorption rates.



Rehofix corn cob granule surface

REHOFIX® Corn cob carriers

- Absorption of liquid nutrients for dry dosing
- Free-flowable, de-dusted granules from Non-GMO-corn
- Big variety of particle sizes between 100 µm and 3,5 mm
- Pore size < 10 µm

LIGNOCEL® Soft- and Hardwood carriers



- Absorption and Adsorption of liquid nutrients for dry dosing
- Fibers and granules with homogeneous particle structure
- Big variety of particle sizes between 40 µm und ca. 10 mm
- From sustainable, regional forestry (PEFC-certified)

Processing aids for extrusion, tableting, compression and granulation

Functional products to optimize and increase the efficiency of manufacturing processes.

VIVAPUR® MCCs

- Microcrystalline celluloses for highly pure applications
- Plastifying under pressure
- Even pressure entry for stable structure in tableting

ARBOCEL®- technical celluloses, LIGNOCEL®-soft wood fibers

- Fibrillated technical qualities
- For smoother surfaces
- For more stable edges

ARBOCEL® FX and Adsorb 2 Compounds

- Easy to dose granulation aids in presence of moisture
- Activation not necessary

Processing aids for disintegration

ARBOCEL® TF-Types

- Cellulose fibers with immediate swelling in presence of water
- Rapid disintegration
- For big pills and tabs



Disintegrating tab in water

VIVASOL® and VIVASOL® PF

- Croscarmellose for wet manufacturing processes
- For smaller pills and dragees < 1 mm



JRS Certification for full product safety