

# PURE EFFICIENCY



## HDK<sup>®</sup> NUTRITION

Direct Food and Feed Additive for Free Flow and Thickening

With HDK<sup>®</sup> NUTRITION, WACKER offers an all-in-one solution to a variety of challenges in the fields of nutrition and animal feeds. Thanks to its extensive experience in the production of pyrogenic silica, WACKER is able to provide ultra-high-purity products that are consistent from batch to batch – for uniform product performance every day.

HDK<sup>®</sup> N20 NUTRITION and HDK<sup>®</sup> T40 NUTRITION are ideal excipients for improving and maintaining the free flow of powders and for providing precise rheology control in liquid products and formulations. Highly qualified experts at competence centers in the major regions of the world will gladly provide further information and personal consultation.

HDK® NUTRITION – MORE EFFICIENCY FOR FOOD AND FEED APPLICATIONS

# HDK® NUTRITION

## The Best Choice for Pure Peak Performance

The purity makes the difference, and HDK® pyrogenic silica offers maximum purity: unlike precipitated silica, it is practically free of humidity and does not contain any soluble salts. HDK® NUTRITION delivers impressive, unique benefits. As a food and feed additive, it adjusts and optimizes product properties in accordance with current European food regulations. HDK® NUTRITION also enhances the product quality of salt, soft powders, high-fat powders, fruit and spice powders, animal feeds and release agents in bakery applications. High-performance silicas from WACKER not only improve performance and productivity, but also stability, handling and logistics.

### Food Regulations

HDK® NUTRITION meets current European food additive regulations and specifications for silicon dioxide (E 551) and fulfills the INS 551 specifications given in current FCC and JECFA monographs. HDK® NUTRITION complies with Chinese standard GB 9685-2016 and is approved as a suitable additive for all categories of food contact materials without any limitation. Production, packaging, quality control and storage of HDK® NUTRITION are HACCP certified, and HDK® NUTRITION grades are halal and kosher certified.



### Vegan/Vegetarian

HDK® NUTRITION is certified as a vegetarian and vegan product.

### Higher Moisture

#### Absorption Capacity

Due to its high moisture-absorption capacity, HDK® NUTRITION works well with humid or hygroscopic powders and is suitable for thickening marinades, oils and other liquid food products.

Furthermore, it ensures accurate moisture regulation in feed pellets.

### Improved Powder Flowability

In mixtures with food and feed powders, HDK® Nutrition readily adsorbs to the entire surface of the powder particle. Acting as a spacer, HDK® reduces interactions between powder particles, greatly enhancing the powder flow. HDK® will not penetrate the surface of the powder particle, even in fat-containing or soft powders. As a result, free flow remains stable even over long storage times.

### Reduced Caking Tendency

Humidity, temperature fluctuation and climate conditions cause caking problems. HDK® NUTRITION increases product shelf life by reducing the tendency to cake.

### More Productive and Cost-Effective

HDK® NUTRITION helps optimize various phases of production and processing by reducing shutdown periods, optimizing conveying, improving dosing precision and significantly reducing the tendency

of a powder to stick to equipment surfaces.

### Valuable Benefits for End Customers

HDK® NUTRITION increases convenience without compromising consistency, usability or the color of products, such as fruit and spice powders.

### Everyday Applications for HDK® NUTRITION

- Seasonings and spice mixtures
- Milk shakes
- Soup powders
- Fruit and vegetable powders (e.g. paprika powder, tomato powder, garlic powder, etc.)
- Salt and sugar
- Flavorings

### Packaging

HDK® NUTRITION comes in convenient, functional, moisture-proof pallets of paper bags. HDK® N20 NUTRITION is offered in 10 kg bags and in 150 kg "Big Bags". HDK® T40 NUTRITION is available in 10 kg bags.

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